



2014 GCCS Phase 2 Construction Certification Report for Lorain County II Landfill

**Prepared for:
Republic Services, Inc.**

November 2014

RECEIVED

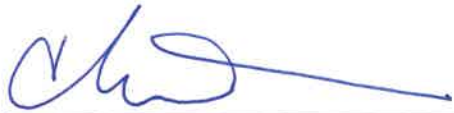
NOV 28 2014

OHIO DEPARTMENT OF
NATURAL RESOURCES

5929

Notarized Statement

"I, Chris Jaquet, certify that this 2014 GCCS Phase 2 Construction Certification Report for the Republic Services, Inc. Lorain County II Landfill in Lorain County, Oberlin, Ohio and all attachments were prepared in accordance with the provisions and requirements of Ohio Administrative Code (OAC) Rule 3745-27-08(H) effective August 2003. Based on my inquiry of the person or persons who were directly responsible for gathering the information, or the immediate supervisor of such person(s), the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."



Signature

10/23/14

Date

Chris Jaquet
Name

Area Environmental Manager
Title

On this, the 23 day of October 2014, before me, a notary public, the above signed person, known to me to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same for purposes therein contained.

In witness whereof, I hereunto set my hand and official seal.



Notary Public



LYNN C WILLIAMS
NOTARY PUBLIC - OHIO
MY COMMISSION EXPIRES 08-23-16

Engineer's Certification

"I, Jeff DeLaet, being a Registered Professional Engineer in the State of Ohio, PE No. E-55904, certify under penalty of law that this 2014 GCCS Phase 2 Construction Certification Report for the Republic Services, Inc. Lorain County II Landfill in Lorain County, Oberlin, Ohio and all attachments were prepared by me or under my direction or supervision in accordance with the provisions and requirements of Ohio Administrative Code (OAC) Rule 3745-27-08(H) effective August 2003 and in accordance with good engineering practices. I have personally visited and examined the facility and am familiar with the information submitted in this document and based on my inquiry of the person or persons directly responsible for preparing this 2014 GCCS Phase 2 Construction Certification Report, the information submitted in the 2014 GCCS Phase 2 Construction Certification Report is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant civil and/or criminal penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."


Signature

11-4-14
Date

Jeff DeLaet, P.E.
Name



On this, the 4th day of NOVEMBER 2014, before me, a notary public, the above signed person, known to me to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same for purposes therein contained.

In witness whereof, I hereunto set my hand and official seal.


Notary Public



CATHERINE L. MIHALIK
Notary Public-State of Ohio
My Commission Expires
May 9, 2017

**NOTARIZED STATEMENT****ENGINEER'S CERTIFICATION**

1.0 INTRODUCTION	1
1.1 FIELD ALTERATIONS/DEVIATIONS	1
2.0 LANDFILL GAS EXTRACTION WELLS.....	4
2.1 MATERIALS.....	6
2.2 CONSTRUCTION/INSTALLATION METHODS	6
2.3 OBSERVATIONS/TESTS.....	7
2.4 AIR MONITORING.....	8
3.0 LANDFILL GAS COLLECTION SYSTEM.....	9
3.1 MATERIALS.....	9
3.2 CONSTRUCTION/INSTALLATION METHODS	9
3.3 OBSERVATION/TESTS	10
4.0 AIRLINE AND FORCE MAIN SYSTEM ON WORK PLAN	13
4.1 MATERIALS.....	13
4.2 CONSTRUCTION/INSTALLATION METHODS	14
4.3 OBSERVATIONS/TESTS.....	14
5.0 SYSTEM REPAIRS AND MAINTENANCE.....	16
5.1 MATERIALS.....	16
5.2 CONSTRUCTION/INSTALLATION METHODS	16
5.3 OBSERVATIONS/TESTS.....	17
APPENDIX A – Daily Field Logs.....	18
APPENDIX B – Construction Photographs and Description Logs.....	19
APPENDIX C – Resumes for CQA Certifying Engineer and Monitors.....	20
APPENDIX D – Project Record Drawings.....	21
APPENDIX E – Landfill Gas Extraction Well Boring Logs.....	22
APPENDIX F – No. 4 Stone Laboratory Results.....	23
APPENDIX G – Geosynthetics Test Results	24
APPENDIX H – Air Monitoring Results.....	25
APPENDIX I – Pipeline Pressure Test Results	26



1.0 INTRODUCTION

The purpose of this 2014 Gas Collection and Control System (GCCS) – Phase 2 Construction Certification Report (Certification Report) is to detail the materials, construction/installation methods, and observations and tests performed for the 2014 GCCS – Phase 2 Construction Project at the Lorain County II Landfill (herein after referred to as the “Landfill”), Lorain County, Oberlin, Ohio. This Certification Report was prepared in general conformance with Ohio Administrative Code (OAC) 3745-27-08(H). The owner's Notarized Statement and the Engineer's Certification attesting to the accuracy and compliance of this Certification Report are included herein.

The Certification Report includes the following sections:

1. Introduction
2. Landfill Gas Extraction Wells
3. Landfill Gas Collection System
4. Airline and Force Main System
5. System Repairs and Maintenance

A discussion of each new or altered component of the Landfill GCCS materials, construction/installation methods, and observations/tests performed is provided in the appropriate section. Daily field logs, photographs, project record drawings, extraction well boring logs, laboratory test results, pipe pressure test results, and additional relevant information is provided in the appendices.

Under the approval of Republic Services, Inc. (Republic), maintenance was performed on the existing Landfill GCCS. Eighteen GCCS extraction wells were replaced (re-drilled). No new GCCS extraction wells were installed. Refer to the Project Record Drawings in Appendix D for re-drilled well locations.

The field work was performed from April 1, 2014 to July 16, 2014. Republic's subcontractor, American Environmental Group Ltd. (AEG) of Richfield, Ohio. AEG, under the supervision of Kevin Shull (Gas Extraction System Operations Manager) and Jeff Enochs (Drilling Operations Manager), performed the construction/installation of the extraction wells and pipeline components. Construction quality assurance (CQA) oversight was performed by T&M Associates with Janet Todia providing day-to-day observations and documentation. Jeff DeLaet, PE, of T&M Associates (T&M) provided project management and served as the certifying engineer. Daily field logs and construction/installation photographs are included in Appendices A and B, respectively. Qualifications for Ms. Todia and Mr. DeLaet are included in Appendix C.

For the purposes of this Certification Report, CQA is used to refer to activities performed by T&M, where quality control (QC) refers to observation and testing activities performed by the GCCS component's installer (AEG) and manufacturer (ISCO).

1.1 FIELD ALTERATIONS/DEVIATIONS

During the course of the construction/installation activities, minor alterations/deviations from the construction drawings were implemented in the field. These minor alterations/deviations are listed below, and are also reflected in the Project Record Drawings included in Appendix D:

- Two redrill wells (EW-52R3 and EW-153R2) were added to the original drilling schedule. As construction commenced, it was determined the preexisting wells EW-52R2 and EW-153R were pinched and needed to be replaced. EW-52R3 was drilled to a depth less than the scheduled bore due to encountering sludge, which continued to cave into the annulus of the bore, preventing the rig from reaching the scheduled bore depth. EW-153R2 was not drilled to scheduled bore depth due to encountering ash.



Well ID	Actual Depth (ft.)	Scheduled Bore Depth (ft.)
EW-52R3	99	139
EW-153R2	110	140

- In addition, the following wells were drilled to a depth less than the scheduled bore depth due to refusal for the following noted reasons.

Well ID	Scheduled Bore Depth (ft.)	Actual Depth (ft.)	Reason for Refusal
EW-118R	84	116	Encountered sludge
EW-53R2	120	121	IMT drilling rig has a maximum bore depth of 120'
EW-49R4	106	114	Encountered sludge
EW-156R	85	90	Encountered sludge
EW-57R3	112	140	Encountered sludge at 112' and IMT drilling rig has a maximum bore depth of 120'

- Due to the inability to recover preexisting pumps from wells to be abandoned as corresponding re-drilled wells came on line, no pumps were installed in wells EW-38R, EW-57R3, EW-153R, EW-321, EW-323, EW324, and TEW9R2. These wells will be gauged for liquids and evaluated for pump installation for the fall construction event.
- During the construction event, it was determined that well EW-50R3 required an alternative vacuum source due to a significant reduction in available vacuum at the original lateral. Therefore, vacuum was obtained from the lateral of well EW-51R3 via installation of a 6" lateral. In addition, a 3" airline and 2" force main was proactively placed in the same trench as the 6" lateral for future pump installation at EW-51R3.
- Originally, the four horizontal collectors to be installed in cell D1 (H19, H20, H21, and H22) were scheduled to be a length of 800 feet each, in order to traverse the length of the entire cell in a north to south direction. During construction, horizontal H20 was terminated approximately 75 feet short on the north end due to the installation of a haul road critical to the operation of the active phase. Horizontal H22 was terminated approximately 400 feet short due to the current fill schedule, as not enough lifts of waste were placed in the area of H22 on the northern half to make it possible for gas extraction without the potential for ambient air intrusion due to the shallow depth of the waste mass.
- The 24" access riser at the south end of the road crossing, extending the 24" into cell D1, was eliminated due to the placement of a 24" access riser north of the road crossing. The riser at the south end of the road crossing was determined to be unnecessary.
- Repairs were made to the 2" force main below grade at EW-158R due to the detection of a leak in the force main. The area impacted is not in final geosynthetic cover. The repair was successfully made and the pump was replaced at well EW-158R by SCS Services.
- During well field monitoring events, it was determined by SCS Services that well EW-45R3 had lost vacuum from its original vacuum source at EW-45R2. Therefore, a new 6" lateral was installed from EW-45R3 to the preexisting 12" sub header from the vacuum source



riser at EW-46R2. The same vacuum riser at EW-46R2 also became the shared vacuum source for redrilled well EW-157R.

- EW-38R was scheduled for installation of a 2" airline, 2" force main, and a pump during the construction event. However, the tie in point for the air line and force main could not be located below grade though the point was surveyed to be located. It was determined the source was too far below grade to reasonably access. The need for pump placement in this well will be reevaluated and alternative tie in points may be located by the design engineer for future construction events.
- Three gas collection risers were connected to the leachate collection system conveyance pipes at the 24" header along the east side of cell D1 to accentuate gas collection from the leachate collection system.



2.0 LANDFILL GAS EXTRACTION WELLS

A total of eighteen (18) replacement extraction wells were installed at the Landfill. The new extraction wells are listed in the following Table 1:

Existing extraction wells that were abandoned and replaced are listed in the following Table 1:

Table 1. Existing Landfill Gas Extraction Wells	
Replacement	Abandoned
EW-32R2	EW-32R
EW-34R3	EW-34R2
EW-49R4	EW-49R3
EW-52R3	EW-52R2
EW-53R2	EW-53R
EW-56R3	EW-56R2
EW-57R3	EW-57R2
EW-60R	EW-60
EW-96R	EW-96
EW-116R2	EW-116R and EW-116S
EW-118R	EW-118 and EW-118S
EW-153R2	EW-153R
EW-156R	EW-156
EW-157R	EW-157
EW-167R	EW-167
EW-301R	EW-301
EW-323R	EW-323
TEW-9R2	TEW-9R

Existing extraction wells were abandoned by excavating around the existing well casing to an approximate 5' depth below the existing ground surface and cutting off the exposed casing. After filling the casing with soil, a polyvinyl chloride (PVC) slip cap, with a bead of silicone gel inside the cap, was lag-bolted on top of the well casing and the excavation was backfilled with the excavated materials and clean onsite soil, as needed.

Those existing extraction wells that were located within the final cover area were abandoned by excavating the vegetative/protective soils around the existing well casing down to the geosynthetic components of the final cover system. The geosynthetics were removed/cut to expose the underlying recompacted soil barrier (RSB) component of the final cover system only to the extent required to provide access to continue excavating around the existing well casing. The excavation into the RSB was limited to 1' to 2'. The excavation was then backfilled and recompacted with the RSB material. The geosynthetic components of the final cover system were repaired and/or replaced (see Section 2.2 for a discussion of how the repairs were performed) and the excavated vegetative/protective soils were placed in the excavation back to the level of the adjacent soil material.



Most of the eighteen re-drilled (replacement) extraction wells are connected to the Landfill GCCS with a 6" lateral that ties into the 6" lateral that served the associated abandoned extraction well. In some cases, vacuum had been lost at the associated abandon extraction well and new 6" laterals had to be run to restore vacuum at the location.

The eighteen re-drilled (replacement) extraction wells were tied into the existing GCCS as follows:

- EW-32R2 is tied into the preexisting 6" lateral at EW32R.
- EW-34R3 is tied into the preexisting 6" lateral at EW-34R2.
- EW-49R4 (remote well) is tied into the preexisting 6" riser at the 12" subheader that originally provided vacuum to EW49R3. This is not a change in design from the original tie in point; however, a new 6" lateral was installed from EW-49R4 to the 12" subheader since the existing 6" vacuum line was determined to be pinched. The single riser is now a shared vacuum source for EW-156R and EW-49R4.
- EW-52R3 is tied into the preexisting 6" lateral at EW-52R2.
- EW-53R2 is tied into the preexisting 6" lateral at EW-53R.
- EW-56R3 is tied into the preexisting 6" lateral at EW-56R2.
- EW-57R3 is tied into the preexisting 6" lateral at EW-57R2.
- EW-60R is tied into the preexisting 6" lateral at EW-60.
- EW-96R is tied into the preexisting 6" lateral at EW-96.
- EW-116R2 is tied into the preexisting 6" lateral at EW-116R.
- EW-118R is tied into the preexisting 6" lateral at EW-118.
- EW-153R2 is tied into the preexisting 6" lateral at EW-153R.
- EW-156R (remote well) is tied into the preexisting 6" riser at the 12" subheader that also provides vacuum to EW-49R4. The single riser is now a shared vacuum source for EW-156R and EW-49R4.
- EW-157R (remote well) is tied into the newly installed 6" lateral from EW-45R3 to the preexisting 6" vacuum riser that currently supplies vacuum to EW-46R2. This single riser is now a shared vacuum source for EW-157R, EW-45R3, and EW-46R2.
- EW-167R is tied into the preexisting 6" lateral for EW-167.
- EW-301R is tied into the preexisting 6" lateral at EW-301.
- EW-323R is tied into the new 6" lateral servicing vacuum to wells EW315R and EW-317, originating from the north 12" subheader.
- TEW-9R2 is tied into the preexisting 6" lateral at TEW-9R.

Four of the extraction wells installed for the 2014 GCCS – Phase 2 program were installed within the area of the Landfill with final cover present (location of these extraction wells is shown on the Project Record Drawings in Appendix D). The geosynthetic components of the final cover system were compromised as the auger advanced through the final cover system. Following installation of the casing for the above-mentioned replacement extraction wells, repair of the geosynthetic components was performed by AEGL (see Section 2.2 for a discussion of how the repairs were performed). The repairs provided a continuous and intact barrier at the replacement extraction well locations.



2.1 MATERIALS

The materials used for the construction/installation of the new and replacement extraction wells included the following:

- 6" and 8" diameter solid and perforated SDR11 HDPE pipe with HDPE butt caps (bottom of well) and 6" and 8" Schedule 40 PVC temporary caps (top of well)
- No. 4 stone (1" to 3" washed non-carbonate) backfill material
- 8-mesh granulated bentonite
- Nominal 40-mil thick LLDPE flexible membrane liner (FML)
- Geocomposite
- HDPE extrusion welding rod

2.2 CONSTRUCTION/INSTALLATION METHODS

Equipment used to construct/install the extraction wells included an IMT AF-130 track-mounted drill rig, Caterpillar 953D track-mounted loader, JCB 725 articulated dump truck, ISCO Hotline HDPE butt-fusion pipe welding equipment, DemTech Pro-X extrusion welder and Pro-Tester, hot air machine, DemTech vacuum box, and various hand tools. The general construction/installation methods were as follows:

- A field survey was conducted by the Wellert Corporation of Medina, Ohio, to stake the design location for each extraction well and the final well schedule was updated accordingly (see Appendix E for the landfill gas well boring logs).
- Boreholes for the extraction wells were drilled into the waste in advance of installing the extraction well materials and equipment. Drilling was performed using an IMT AF-130 track-mounted drill rig with a 36" diameter auger to the depth for each individual extraction well indicated in the final extraction well schedule.
 - Waste material encountered within the borehole was placed in the articulated dump truck for transportation and disposal at the active working face of the Landfill.
- Depth of the borehole was controlled and verified using a weighted tape measure. As the auger advanced, the cuttings were visually observed to ensure no geosynthetics were encountered. Waste temperatures and waste composition were also recorded (see boring logs in Appendix E).
- Final borehole depth was confirmed using a weighted tape measure prior to extraction well casing placement.
- Solid wall and perforated sections of HDPE pipe were butt-fusion welded to the lengths provided in the final extraction well schedule for placement into the borehole. A typical detail for the extraction well construction is provided on the Project Record Drawings in Appendix D.
- Using the Caterpillar 953D track-mounted loader, the welded HDPE casing was raised and slipped into the borehole. A metal grate was placed around the casing to position the casing as close as possible to the middle of the borehole. The casing was secured to the metal grate to prevent the casing from sagging.
- No. 4, washed, non-carbonate stone was placed in the borehole annulus from the bottom up to a minimum of 2' above the top of the perforated section of the 6" or 8" HDPE casing. The geotechnical test results for the No. 4 stone are provided in Appendix F.



- Geonet with geofabric (i.e., Geocomposite), which was heat-bonded to one side of the geonet, was placed over the stone with the geonet in contact with the stone. A 1' clean soil plug was placed on top of the geofabric overlying the geonet.
- A 2' thick (minimum) granular bentonite seal was placed on top of the clean soil plug. The granular bentonite was hydrated with water and on-site clean soil material was placed on top of the granular bentonite seal. The clean soil material varied in thickness. The 2' thick (minimum) granular bentonite seal was placed on top of the clean soil material so that the top of the upper granular bentonite seal extended a minimum of 6" into the cover soil.
- Repairs to the geosynthetic components of the final cover system consisted of installing and extrusion welding a "boot sleeve" around the new replacement well casing and extrusion welding the boot sleeve to the FML component of the final cover system. The repair procedures included the following:
 - The excavator and hand tools were used to expose an area around the new replacement well casing.
 - Surface of the existing FML was cleaned of debris.
 - A section of the 40-mil LLDPE FML was cut to overlay the damaged area of the existing FML by a minimum of six inches.
 - The 40-mil LLDPE FML boot sleeve was placed over the casing leaving enough material to secure the boot sleeve to the casing.
 - The 40-mil LLDPE FML boot sleeve was heat-bonded to the existing FML component of the final cover system and the new replacement well casing.
 - A hand grinder (60-grit sand paper) was used to prepare the area of the existing FML component where the extrusion welding would be performed prior to initiating welding.
 - Trial welds were performed for the extrusion welders prior to performing the extrusion welding of the 40-mil LLDPE FML boot sleeve to the existing FML component of the final cover system.
 - The 40-mil LLDPE FML boot sleeve was extrusion welded to the existing FML component of the existing final cover system and the new replacement well casing.
 - The geocomposite was repaired by placing a section of geocomposite material cut to overlay the damaged area by a minimum of 1'.
- Schedule 40 PVC temporary caps were installed using set screws and silicone sealant on top of the new well casings. Upon completion of the Landfill GCCS piping, Landtec wellheads were installed as permanent replacements for the temporary caps. In most cases, each newly drilled extraction well was connected the same day to either temporary or permanent vacuum laterals to proactively mitigate potential odor issues. All wells and associated risers were marked with reflective tape to increase visibility.
- Landtec wellheads were installed using flexible couplers secured with hose clamps.

2.3 OBSERVATIONS/TESTS

The following observations and tests were performed during the construction/installation of the new and replacement extraction wells:



- Materials used in the construction/installation of the new and replacement extraction wells were visually observed for conformance with the construction drawings, as well as to verify there were no signs of damage. The extraction well casing materials were determined to be in conformance with the construction drawings and no visual damage to the materials was observed.
- Perforation size (diameter) and pattern (spacing around the circumference and along the length) for the perforated portion of the extraction well casings were observed for general conformance with the construction drawings.
- Boreholes were observed during the drilling to document that the boreholes were completed to the appropriate depth as provided in the final extraction well schedule provided on the Project Record Drawings included in Appendix D.
- No. 4 washed non-carbonate stone was used to backfill the annular space between the perforated extraction well casing and the borehole. The geotechnical test results for the gradation and carbonate content of the No. 4 stone are provided in Appendix F.
- T&M Associates CQA monitor observed the butt-fusion welding process used to connect the HDPE pipe casing sections together to verify appropriate welding procedure guidelines were followed. The butt-fusion welding was performed according to acceptable standards.
- T&M Associates CQA monitor obtained and recorded measurements to verify the extraction wells were constructed according to the construction drawings as well as to create the Project Record Drawings.
- The AEGL driller and the T&M Associates CQA monitor recorded refuse temperature, composition, and degree of moisture at approximately five-foot intervals during drilling activities. The AEGL well logs are provided in Appendix E.

The following observations and tests were performed during the installation of the 40-mil LLDPE FML repairs:

- T&M Associates CQA monitor performed visual observation and documentation of the repairs and vacuum box testing.
- Prior to welding of the 40-mil LLDPE FML to the existing FML and new replacement well casing, trial welds were performed using the extrusion welder. Test sections of the welds were cut and a tensiometer was used to perform three peel and three shear tests on the test weld sections. The minimum required value for a passing peel test for 40-mil LLDPE is 60 lb/in. The minimum required value for passing a shear test for 40-mil LLDPE is 44 lb/in. The results of the peel and shear tests are presented in Appendix G.

2.4 AIR MONITORING

Air monitoring was performed during the drilling of the new and replacement extraction wells. A multi-gas QRAE monitoring device, manufactured by RAE Systems, was used to conduct the air monitoring. The atmospheric concentrations within the breathing zone were monitored for methane (lower explosive limit [LEL]), oxygen, carbon monoxide, and hydrogen sulfide. The air monitoring results, which were recorded by the T&M Associates CQA monitor, are provided in Appendix H.



3.0 LANDFILL GAS COLLECTION SYSTEM

AEGL installed the GCCS components required to incorporate the new extraction well and the replacement extraction wells into the existing GCCS. Approximately 2,100 linear feet of 6" SDR17 solid-wall HDPE pipe was installed to connect the new extraction well and the replacement extraction wells on line with the existing Landfill GCCS. Approximately 630 linear feet of 12" SDR17 solid-wall HDPE pipe was used to both construct the new header and to tie into the upper and lower 24" header pipelines. In addition, approximately 910 linear feet of 24" SDR26 solid-wall HDPE was used to extend the main header system along the east side of cell D1. The horizontal collector in cell D1 consisted of approximately 2,565 linear feet of 6" SDR17 perforated HDPE pipe. The approximate linear footage of gas collection pipeline installed is also noted in the daily field logs for AEGL (see Appendix A).

In addition, one new condensate sump (CS-22) was installed in the new 24" header system along the east side of cell D1. The sump was pressure tested and certified by ISCO Industries at the factory prior to shipment. See Appendix J for sump installation design and pressure testing certification.

3.1 MATERIALS

The components used to connect the new and replacement extraction wells into the existing Landfill GCCS included the following:

- 6" diameter solid SDR17 HDPE lateral pipe
- 6" diameter perforated SDR17 HDPE pipe (north horizontals)
- 12" diameter solid SDR17 HDPE header pipe
- 24" diameter solid SDR26 HDPE header pipe
- Landtec well heads and combination well heads
- Various sizes of HDPE tie-in couplings, reducers, tees, elbows and other fittings and appurtenances

3.2 CONSTRUCTION/INSTALLATION METHODS

Equipment used to connect the new and replacement extraction wells into the existing Landfill GCCS included Caterpillar 320D and 325C track-mounted excavators, Caterpillar 725 articulated dump trucks, Caterpillar D4K and D6K track-mounted dozers, ISCO Hotline HDPE butt-fusion pipe welding equipment, Wacker Nueson RTSC2 radio controlled compaction equipment, Caterpillar plate tamper adapter for the 320D track-mounted excavator, and various hand tools.

The general construction/installation methods used to connect the new and replacement extraction wells into the existing Landfill GCCS were as follows:

- HDPE pipe of various diameters was delivered to the Landfill and stored in the designated area(s).
- The 6", 12", and 24" HDPE pipe was butt-fusion welded on-site by AEGL prior to being connected to the existing Landfill GCCS.
- HDPE pipe was placed in the trenches following completion of the excavation.
 - HDPE pipe was installed to achieve the minimum design slopes of 3-percent within the limits of waste and 1-percent outside the limits of waste.
 - Inside the limits of waste, pipe bedding consisted of clean cover soil material removed from the trench excavation.



- Outside the limits of waste, for installation of the new 24" header along the east berm of cell D1, pipe bedding consisted of clean sand material that extended a minimum of 6- inches above the pipe. Replacement of the east berm was then tested and certified in compacted lifts. See Section 3.3 Observations/Tests.
 - Survey markers were placed at 50' intervals along the pipelines, at road crossings, and at fitting locations. The survey markers were removed following completion of the field survey activities.
- Installed pipelines, fittings, components, and road crossings were field surveyed after installation from a third order benchmark using global positioning system (GPS) technology.
 - Locations of the pipelines, components, and appurtenances are provided on the Project Record Drawings in Appendix D.
 - 5-mil x 3" underground detectable tape with the words "CAUTION BURIED GAS LINE BELOW" was placed approximately 1' above the HDPE pipe during backfilling activities.
- Waste material encountered within the excavated soil was separated from the soil as the trenches were backfilled. The waste material was placed in an articulated dump truck for transportation and disposal at the active working face of the Landfill.
 - Additional soil was obtained from an onsite stockpile to augment the backfill soil, if needed.

3.3 OBSERVATION/TESTS

The following observations and tests were performed during the connection of the new and replacement extraction wells to the existing Landfill GCCS:

- Pipe was visually observed for conformance with the construction drawings, as well as to verify there were no signs of damage. The pipe was determined to be in conformance with the construction drawings and no visual damage to the pipe was observed.
- Butt-fusion welds were visually observed prior to back-filling the trenches. T&M CQA monitors observed hot plate temperature, holding times, and welding techniques. The welds were determined to be in conformance with the specifications.
- Pipelines were pressure tested prior to being connected to the existing Landfill GCCS, and while in place. Pressure tests consisted of applying a minimum of 25 psi for 6" SDR17 and 10 psi for 12" SDR17 and 24" SDR26 HDPE. All tests were conducted over a minimum four-hour period. Prior to beginning the test, during the test, and following completion of the test, the gauges were visually assessed for damage and proper units of measurement. The results of the pressure tests determined that the pipelines did not have any leaks. Pipe pressure test results are provided in Appendix I.
- The geotechnical results for the No. 4 stone was reviewed and determined to be in compliance with the gradation and carbonate residue requirements (minimum acceptable carbonate content ≤5 percent). Testing results are presented in Appendix F.

The following observation and tests were performed during the compaction of the 24" gas header installation on the east berm of D1:

Structural fill was placed at a minimum of 90% of its maximum dry density (ASTM specification D-1557, modified Proctor method) with no moisture requirement. The trench was backfilled with the trench excavation material. Therefore, the Modified Proctor Curve utilized was obtained from



structural fill material (SF-D1-3, established during the original installation of the berm) that had a maximum dry density of 127.0 pounds per cubic foot (pcf) and optimum moisture content of 11.1%.

Structural fill was placed in maximum 12 inch loose lifts. Gary Swearingin of Weaver Boos Consultants conducted the testing and calibration of the Troxler 3440 unit. Five tests per lift were performed confirming certification with the following results.

The east berm of Cell D1 was divided into two areas of lift sections - south of sump CS-22 and north of sump CS-22. There were less lifts to test north of CS-22 as there was a significant elevation change due to south of CS-22 being the sump inlet and north of CS-22 being the sump outlet. In the table below, 0+0 was established as the new condensate sump CS-22 and testing was conducted due south of the sump placement:

	Compaction (% Maximum Dry Density)							Moisture (%)						
	Lift No. (12 inch lifts)							Lift No.(12" lifts)						
Station	1	2	3	4	5	6	7	1	2	3	4	5	6	7
0+39	91.1	94.3	96.2	96.8	93.6	91.1	93.7	14.2	12.6	12.4	12.0	13.2	14.5	12.7
0+94	94.8	93.6	95.8	97.0	96.9	92.9	91.3	10.8	12.4	12.3	10.7	11.9	12.7	14.7
1+77	96.1	94.7	97.6	96.8	95.4	94.4	93.1	12.3	12.4	12.9	11.2	12.8	10.6	13.1
2+50	99.6	98.3	96.4	93.9	91.0	95.2	94.0	9.5	9.9	12.2	11.4	12.1	11.9	13.5
3+19	95.3	95.7	98.2	97.6	92.3	96.2	94.3	10.9	12.3	12.3	10.9	11.8	11.6	12.1

	Maximum Dry Density (pcf)						
	Lift No. (12" lifts)						
Station	1	2	3	4	5	6	7
0+39	115.7	119.7	122.2	123.0	118.9	115.6	119.0
0+94	120.3	118.9	121.6	123.2	123.1	118.8	115.9
1+77	122.0	120.2	123.9	123.0	121.2	119.9	118.2
2+50	126.4	124.8	122.4	119.2	115.5	120.9	119.4
3+19	121.0	121.5	124.8	124.0	117.2	122.2	119.8



In the table below, 0+0 was established as the new condensate sump CS-22 and testing was conducted due north of the sump placement:

	Compaction (% Maximum Dry Density)		Moisture (%)		Maximum Dry Density (pcf)	
	Lift No. (12 inch lifts)		Lift No.(12" lifts)		Lift No.(12" lifts)	
Station	1	2	1	2	1	2
0+98	90.0	94.3	13.7	11.5	114.2	119.7
1+87	92.8	91.9	11.1	11.8	117.8	116.7
2+45	95.8	98.3	9.7	11.1	121.6	124.8
3+18	90.1	95.8	12.3	9.9	114.5	121.7
3+45	93.6	93.9	11.2	9.9	118.9	119.2

Field testing using the Troxler 3440 unit confirmed that the in-place soil was compacted to a minimum of 90% of its maximum dry density.

4.0 AIRLINE AND FORCE MAIN SYSTEM ON WORK PLAN

AEGL installed the airline and force main system components required to incorporate the new extraction well leachate pumps into the existing Landfill GCCS. A total of fourteen pneumatic pumps were installed at the Landfill as listed in Table 3. An estimated 10,811 linear feet of HDPE pipe was installed to connect the new extraction well pumps with the leachate collection and compressed air system. Of that linear footage of pipeline installed, 5,170 linear feet was 2" diameter HDPE airline, 1,024 linear feet was 2" x 4" diameter dual-contained HDPE leachate force main, 35 linear feet was 3" diameter HDPE force main, 3,042 linear feet was 2" diameter HDPE force main, 713 linear feet was 4" diameter HDPE leachate force main, and an estimated 827 feet was 4" x 8" diameter dual-contained HDPE leachate force main. The approximate linear footage of pipeline installed is included in the daily field logs for AEGL (see Appendix A).

Table 3. Extraction Well Pumps and Depths

Well	Pump Depth (ft)
EW-226	97
EW-102R	70
EW-18	24
EW-107R	38
EW-306R	90
EW-307R	99
EW-314R	83
EW-313R	82
EW-49R4	101
EW-156R	77
EW-52R3	94
EW-55R	27
EW-62R2	76
EW-162	37

Two-inch and three-inch airline and 2", 3", 4", and 2" x 4", and 4" x 8" force main was installed to operate newly installed pumps and to accommodate future installation of additional pumps. The airline and force main was connected to the existing airline and force main by pinching the preexisting lines and butt fusing new lines to extend the runs. The locations of the new extended airlines and force main are shown on the Project Record Drawings in Appendix D.

4.1 MATERIALS

The airline and force main components include the following materials:

- 2" diameter SDR9 HDPE pipe (airline)
- 3" diameter SDR9 HDPE pipe (airline)



- 2" diameter SDR11 HDPE pipe (force main carrier pipe)
- 4" diameter SDR11 HDPE pipe (force main containment pipe)
- 3" diameter SDR11 HDPE pipe (force main carrier pipe)
- 8" diameter SDR17 HDPE pipe (force main containment pipe)
- 4" diameter SDR11 HDPE pipe (force main carrier pipe)
- QED Pneumatic pumps and associated hardware
- Various sizes of HDPE tees, fittings, and appurtenances

4.2 CONSTRUCTION/INSTALLATION METHODS

Equipment used to install the airline and force main system included Caterpillar 320D track-mounted excavators and CAT 725 articulated dump trucks, electro-fusion couplers and welding equipment, ISCO Hotline butt-fusion welding equipment and various hand tools.

The general construction/installation methods used to install the airline and force main system were as follows:

- The HDPE pipe was butt-fusion welded on-site by AEGL.
- A trench was excavated at the specified location to a depth of approximately 36 inches below the existing ground surface.
- The leachate force main and airline piping were placed in a trench on a bed of compacted soil and backfilled with clean on-site soil.
- Waste encountered was separated from the fill as the trench was backfilled. Excavated waste was placed in an articulated dump truck for disposal at the active working face of the Landfill.
- Riser pipes at each extraction well were connected to the pumps installed in the extraction wells listed in Table 3.

4.3 OBSERVATIONS/TESTS

The following observations and tests were performed during the installation of the leachate force main and airline:

- The HDPE pipe was visually observed for conformance with the construction drawings, as well as to verify there were no signs of damage. The pipe was determined to be in conformance with the construction drawings and no visual damage to the pipe was observed.
- Butt-fusion welds were visually observed to be completed according to the butt-fusion welding specifications.
- Installed force main and airlines were pressure tested prior to being connected to the existing Landfill GCCS. The pressure test for the airline consisted of applying 100 psi of pressure over a minimum 4-hour period. The pressure test for the leachate force main consisted of applying 50 psi of pressure over a minimum 4-hour period. Prior to beginning the test, during the test, and following completion of the test, the gauges were visually assessed for damage and proper units of measurement. The results of the pressure tests determined that the pipelines did not have any leaks. Pipe pressure test results are provided in Appendix I.



- For testing of dual-contained force main, the interior 2" force main was pressurized to 60 psi and the exterior 4" containment line was tested to 50 psi over a minimum 4-hour period. For testing of the dual-contained 4" x 8" dual-contained force main, the interior pipe was pressurized to 60 psi and the exterior 8" containment line was tested to 50 psi over a minimum 4-hour period.



5.0 SYSTEM REPAIRS AND MAINTENANCE

Gas header line repairs/maintenance were performed by AEGL. The following repairs/maintenance activities were performed:

- During the construction event, well EW-50R3 required an alternative vacuum source due to a significant reduction in available vacuum at the original lateral. Therefore, vacuum was obtained from the lateral of well EW-51R3 via installation of a 6" lateral. In addition, a 3" airline and 2" force main was proactively placed in the same trench as the 6" lateral for future pump installation at EW-51R3.
- Repairs were made to the 2" force main below grade at EW-158R due to the detection of a leak in the force main. The area impacted is not located in the final geosynthetic cover. The repair was successfully made and the pump was replaced at well EW-158R by SCS Services.
- During well field monitoring events, well EW-51R3 had lost vacuum from its original vacuum source at EW-153R. Therefore, a new 6" lateral was installed from EW-51R3 to the preexisting 6" lateral vacuum source at EW-50R3. In addition, a 2" airline and 3" force main was installed in the same trench for future pump placement.
- During well field monitoring events, it was determined by SCS Services that well EW-45R3 had lost vacuum from its original vacuum source at EW-45R2. Therefore, a new 6" lateral was installed from EW-45R3 to the preexisting 12" sub header from the vacuum source riser at EW-46R2. The same vacuum riser at EW-46R2 also became the shared vacuum source for redrilled well EW-157R.

5.1 MATERIALS

The components used to repair and maintain the existing Landfill GCCS included the following:

- 2" diameter HDPE SDR9 pipe (airline)
- 3" diameter SDR11 HDPE (force main)
- 3" diameter HDPE SDR9 pipe (airline)
- 2" diameter SDR11 HDPE pipe (force main carrier pipe)
- 6" diameter SDR17 HDPE lateral pipe.
- Various sizes of HDPE tie-in couplings, reducers, tees, and other fittings and appurtenances.

5.2 CONSTRUCTION/INSTALLATION METHODS

Equipment used to perform the GCCS repairs and maintenance included Caterpillar 320D and 325C track-mounted excavators, Caterpillar 725 articulated dump trucks Caterpillar D4K and D5K dozers, butt-fusion and electro-fusion welding equipment and various hand tools.

The general construction/installation methods used to repair and maintain the existing Landfill GCCS were as follows:

- HDPE pipe of various diameters was delivered to the Landfill and stored in the designated area(s).
- The 2", 3", and 6" HDPE pipe was butt-fusion welded on-site by AEGL prior to being connected to the existing Landfill GCCS.
- HDPE pipe was placed in the trenches following completion of the excavation.



- HDPE pipe was installed to achieve the minimum design slopes of 3-percent within the limits of waste.
 - Pipe bedding consisted of clean cover soil material removed from the trench excavation.
 - Survey markers were placed at 50' intervals along the pipelines, at road crossings, and at fitting locations. The survey markers were removed following completion of the field survey activities.
- Installed pipelines, fittings, components, and road crossings were field surveyed after installation from a third order benchmark using global positioning system (GPS) technology.
 - Locations of the pipelines, components, and appurtenances are provided on the Project Record Drawings in Appendix D.
 - 5-mil x 3" underground detectable tape with the words "CAUTION BURIED GAS LINE BELOW" was placed approximately 1' above the HDPE pipe during backfilling activities.
- Waste material encountered within the excavated soil was separated from the soil as the trenches were backfilled. The waste material was placed in an articulated dump truck for transportation and disposal at the active working face of the Landfill.
 - Additional soil was obtained from an onsite stockpile to augment the backfill soil, if needed.

5.3 OBSERVATIONS/TESTS

The following observations and tests were performed during the above detailed construction activities:

- Pipe, shop-fabricated tees and branch saddles, electro-fusion couplers, elbows, flanges and appurtenances were visually observed to verify there was no sign of damage. No visual damage to the materials installed for the GCCS maintenance activities was observed.
- Backfilling operations were monitored to assure that there were no negative impacts to the new and existing components of the GCCS system.
- Butt-fusion welds for the various pipe sizes were visually observed prior to back-filling the trenches. T&M Associates CQA monitor observed hot plate temperature, fusion pressure, holding times, and welding techniques. The welds were determined to be in conformance with the butt-fusion welding specifications.
- Electro-fusion welds were visually observed to be completed according to the electro-fusion welding specifications.
- Installed lateral pipelines were pressure tested prior to being connected to the existing Landfill GCCS. The pressure test for the lateral pipelines consisted of applying a minimum of 25 psi of pressure over a minimum 4-hour period. Prior to beginning the test, during the test, and following completion of the test, the gauges were visually assessed for damage and proper units of measurement. The results of the pressure tests determined that the pipelines did not have any leaks. Pipe pressure test results are provided in Appendix I.



APPENDIX A – Daily Field Logs



American
Environmental
Group Ltd.

AEGL DAILY DIARY

PROJECT NAME:

Lorain County Landfill

DATE:

4/3/2014

CLIENT/PROJECT#

202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		AIR: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

MISC. ITEMS / EXTRA DETAIL: (Described Below)

WEATHER & TIME INFORMATION

DAILY CONDITIONS:
cloudy/rain

START TIME 7:00AM

STOP TIME 11:00AM

COMMENTS (Description of Work Order Completed):

Today we had our morning safety meeting and then went up on the hill and fabbed up pipe and fittings and we started fusing up 24" pipe. However we had to shut down do the the fact the rain set in for the day. So we then wrapped things up and left for the day.

CLIENT REPRESENTATIVE

DATE

NAME & TITLE

AEGL SUPERINTENDENT

DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/4/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-13-111

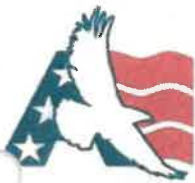
MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		AIR: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		FORCEMAIN: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION
DAILY CONDITIONS: Rain
START TIME _____
STOP TIME _____

Today we didn't work do the the fact of rain.

Janet A. Todaro 4/4/14
CLIENT REPRESENTATIVE DATE
Janet A. Todaro CQA
NAME & TITLE

[Signature] 4/4/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/5/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-13-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
WEATHER & TIME INFORMATION		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
DAILY CONDITIONS:		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
START TIME 12:00PM			
STOP TIME 12:30PM			

COMMENTS (Description of Work Order Completed):

Today we came in to do road crossing down at the active face but do to the fact site would not be out until 3:00PM we wrapped things up and will come back in tomorrow to do road crossing when the site is closed.

James A. Todia 4/5/14
CLIENT REPRESENTATIVE DATE
James A. Todia CQA
NAME & TITLE

[Signature] 4/5/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/6/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS: Sunny	
START TIME	7:00AM
STOP TIME	4:00PM

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went over and dug road crossing at the active face. While we were trenching we went up and pulled all survey risers out of ground and brought 48" CMP down to road crossing. Once road crossing was dug and dig was on grade we then put 120ft of 48" CMP in trench and banded pieces together. Once CMP was together we shot CMP at 1% or more grade so we backfilled road crossing. Once CMP was covered with dirt we rolled liner across top of cmp and then put brick and stone on top of road crossing. We then got with the site and used the roller and packed in road crossing once road was completely in we wrapped things up and left for the day.

CLIENT REPRESENTATIVE

DATE

NAME & TITLE

AEGL SUPERINTENDENT

DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/7/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY
VALVES:	
VALVE STEMS:	
LAND-TEC WELLHEADS:	
IN-LINE SUMPS:	
QED VAULT KITS:	
QED PUMPS:	
ENCASEMENTS:	
MISC. ITEMS / EXTRA DETAIL: (Described Below)	
WEATHER & TIME INFORMATION	
DAILY CONDITIONS: cloudy/rain	
START TIME 7:00AM	
STOP TIME 3:00PM	

LATERAL: #	PIPE DIA.
STATION:	LINEAR FT.
HAR:	TRENCH DEPTH
LATERAL: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
LATERAL: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
AIR: # EW-226	PIPE DIA. 2"
STATION: 0+00 to 2+23	LINEAR FT. 223'
RISER HEIGHT:	TRENCH DEPTH 3'
FORCEMAIN: # EW-226	PIPE DIA. 4x2
STATION: 0+00 to 2+23	LINEAR FT. 223'
RISER HEIGHT:	TRENCH DEPTH 3'
AIR: # EW-107R	PIPE DIA. 2"
STATION: 0+00 to 2+96	LINEAR FT. 296'
RISER HEIGHT:	TRENCH DEPTH 3'
FORCEMAIN: # EW-107R	PIPE DIA. 4x2
STATION: 0+00 to 2+96	LINEAR FT. 296'
RISER HEIGHT:	TRENCH DEPTH 3'
AIR: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH

Today we started with our morning safety meeting and then went up on the hill. We started by trenching 2" air and 4x2 forcemain from EW-122R to EW-226. While we were trenching on lateral we fused up pipe and fittings and put pipes on airtest. We put 100psi on the 2" air line, 60psi on the inner 2" pipe and 50psi on the outer 4" pipe. While we also put air test on 2" air and 4x2 forcemain going to EW-107R. We had air test on for 4hrs on both laterals once Janet the QC came and checked and passed test we put pipe in trench line for EW-226. We started with 90 risers at EW-226 and then went over to EW-122R and pinched off existing pipes and tied new laterals with a 2" tee and a 4x2 tee. Once tie in was complete we then went over to EW-114R and started trenching on air and forcemain lateral going to EW-107R. Once lateral trench we then put pipes in trench line. We also started with 90 risers at EW-107R and then went up and tied in pipes with tees at EW-114R. Once tie in was complete we then set survey risers at every 50ft mark and fittings on both trenches and then finished backfilling trench lines. Once we finished back filling we wrapped things up to do the fact the rain was setting in for the day.

Janet A. Todia 4/7/14
CLIENT REPRESENTATIVE

Janet A. Todia CQA
NAME & TITLE

[Signature] 4/7/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/8/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		AIR: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
rain	
START TIME	
STOP TIME	

COMMENTS (Description of Work Order Completed):

Today we didnt work to the fact of the rain

CLIENT REPRESENTATIVE

DATE

AEGL SUPERINTENDENT

DATE

NAME & TITLE



DATE: 4/9/2014

CLIENT/PROJECT#	202-14-111
------------------------	------------

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: # Horizontal #1	PIPE DIA. 6"solid
VALVE STEMS:		STATION: 0+00 to 0+20	LINEAR FT. 20'
LAND-TEC WELLHEADS:		RISER HEIGHT:	TRENCH DEPTH 3'
IN-LINE SUMPS:		LATERAL: # Horizontal #1	PIPE DIA. 6" Perf
QED VAULT KITS:		STATION: 0+20 to 0+80	LINEAR FT. 60'
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH 3' to 5'
ENCASEMENTS:		LATERAL: # Horizontal #1	PIPE DIA. 6" Perf
		STATION: 0+80 to 2+85	LINEAR FT. 205'
MISC. ITEMS / EXTRA DETAIL: (Described Below) 12 bags of bentonite for plugs on horizontals		RISER HEIGHT:	TRENCH DEPTH 5' to 8'
		LATERAL: # Horizontal #2	PIPE DIA. 6" Solid
		STATION: 0+00 to 0+20	LINEAR FT. 20'
		RISER HEIGHT:	TRENCH DEPTH 3'
		LATERAL: # Horizontal #2	PIPE DIA. 6" Perf
		STATION: 0+20 to 1+00	LINEAR FT. 80'
		RISER HEIGHT:	TRENCH DEPTH 3' to 5'
		LATERAL: # Horizontal #2	PIPE DIA. 6" Perf
		STATION: 1+00 to 2+00	LINEAR FT. 100'
		RISER HEIGHT:	TRENCH DEPTH 5' to 8'
WEATHER & TIME INFORMATION DAILY CONDITIONS: clear START TIME <u>7:00AM</u> STOP TIME <u>6:00PM</u>		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

Today we started with our morning safety meeting and then went over and started trenching on horizontals 1 and 2. While we were trenching we loaded stone up and stocked piled rock up by horizontal laterals. We then put 1ft of rock in bottom of both trenches and put rock on 3% grade once rock was on grade we started both laterals off with 90 risers with blinds and then 20ft of solid pipe and then changed over to 6" perf we installed low point tees with rock sumps at horizontal #1 at 1+86 and Horizontal #2 at 1+65. Once pipe was in trench lines we then shoot in pipe it all had grade so we then put 2ft of stone over top of pipes and the rolled fabric on top of gravel pack and set survey risers every 50ft mark and fittings. We then hauled dirt to trench lines and backfilled trenches. Once back filling was complete we then wrapped things up and left for the day.

CLIENT REPRESENTATIVE

DATE _____

NAME & TITLE

ABGL SUPERINTENDENT

DATE _____



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/10/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: # Horizontal #1	PIPE DIA. 6" Perf
VALVE STEMS:		STATION: 2+85 to 3+80	LINEAR FT. 95'
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:		LATERAL: # Horizontal #3	PIPE DIA. 6" solid
QED VAULT KITS:		STATION: 0+00 to 0+20	LINEAR FT. 20'
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH 3'
ENCASEMENTS:		LATERAL: # Horizontal #3	PIPE DIA. 6" Perf
MISC. ITEMS / EXTRA DETAIL: (Described Below) 6 Bags of bentonite for Horizontal #3		STATION: 0+20 to 0+90	LINEAR FT. 70'
		RISER HEIGHT:	TRENCH DEPTH 3' to 5'
		LATERAL: # Horizontal #3	PIPE DIA. 6" Perf
		STATION: 0+90 to 1+50	LINEAR FT. 60'
		RISER HEIGHT:	TRENCH DEPTH 5' to 7'
WEATHER & TIME INFORMATION		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
DAILY CONDITIONS: Clear/Windy		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
START TIME 7:00AM		RISER HEIGHT:	TRENCH DEPTH
STOP TIME 6:00PM			

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went over and trenched on Horizontal #1 and #3. While we were trenching we stck piled rock up by trenches. While were trenching the wind pick up and the site shut us down from digging so we stoped trenching and then started rocking trenches. Once trenches had a 1ft of stone in bottom of trenches and on grade we started by running pipe in #1 all the way up to high point. We then went over to Horizontal #3 and started lateral with 6" 90 riser with 20 of solid pipe and then changed over to 6" perf. and put pipe in trench line. Once pipes were in both trenches we shot in pipe at 3% grade and then put 2ft of rock over top of pipe and then rolled fabric over top of rock pack. We also put 6 bags of bentonite 5ft before perf pipe started. We then hauled dirt up to trench lines and back filled trenches. While were back filling we went up top and fabbed up pipes. Also site wanted us to fix road that use to haul dirt so we hauled dirt and fixed road and lateral. Once we finished fixing road and had horizontal back filled we wrapped things up and left for the day.

[Signature] 4/10/14
CLIENT REPRESENTATIVE DATE
Brent A Todia CQA
NAME & TITLE

[Signature] 4/10/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/11/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-13-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		AIR: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		FORCEMAIN: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS: Rain	
START TIME	7:00AM
STOP TIME	8:00AM

Today we showed up on site but due to the fact of all the rain over night and the fact it was still raining we wrapped things up and left for the day.

James A. Todia 4/11/14
CLIENT REPRESENTATIVE DATE
James A. Todia CQA
NAME & TITLE

[Signature] 4/11/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/12/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-13-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		AIR: # EW-314R and EW-313	PIPE DIA. 2"
VALVE STEMS:		STATION: 0+00 to 3+20	LINEAR FT. 320'
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH 3'
IN-LINE SUMPS:		FORCEMAIN: # EW-314R and EW-313	PIPE DIA. 2"
QED VAULT KITS:		STATION: 0+00 to 3+20	LINEAR FT. 320'
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH 3'
ENCASEMENTS:			
MISC. ITEMS / EXTRA DETAIL: (Described Below)		AIR: #	PIPE DIA.
40ft of 12" CMP		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
WEATHER & TIME INFORMATION		HEADER: #	PIPE DIA.
DAILY CONDITIONS:		STATION:	LINEAR FT.
clear		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
START TIME 7:00AM		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
STOP TIME 2:00PM		RISER HEIGHT:	TRENCH DEPTH

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went up on the hill and started trenching on 2" air & forcemain lines at EW-314R and EW-313. We installed tee risers at EW-314R and then went up the hill and installed 40ft of 12" cmp for road crossing and then feed pipes thru CMP. Once pipe was feed thru we installed 2" 90 risers at EW-313. Once all pipe was in trench line we marked out pipe and back filled trench line. We set survey risers every 50ft mark and fittings. Once back filling was complete we hauled 6 loads of dirt to Horizontals 1 and 2. We then wrapped things up and left for the day.

John A. Todia 4/12/14
CLIENT REPRESENTATIVE DATE
John A. Todia CQA
NAME & TITLE

[Signature] 4/12/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/13/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
WEATHER & TIME INFORMATION		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
DAILY CONDITIONS:		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
START TIME		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
STOP TIME		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.

COMMENTS (Description of Work Order Completed):

Today we didnt work.

Janet A. Todia 4/13/14
CLIENT REPRESENTATIVE DATE
Janet A Todia CQA
NAME & TITLE

[Signature] 4/13/2014
AEGL SUPERINTENDENT DATE



**American
Environmental
Group Ltd.**

AEGL DAILY DIARY

DATE: 4/14/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction			
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		WEATHER & TIME INFORMATION	
DAILY CONDITIONS: windy/rain			
START TIME <u>7:00AM</u>			
STOP TIME <u>9:30AM</u>			

Today we started with our morning safety meeting and then went up on the hill and started fusing up 24" pipe. But due to the rain we had to stop and wrapped things up and left for the day.

4/14/14
CLIENT REPRESENTATIVE

NAME & TITLE

4/14/2014
AEGL SUPERINTENDENT

DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/15/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		AIR: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS: rain/snow	
START TIME _____	
STOP TIME _____	

COMMENTS (Description of Work Order Completed):

today we didn't work do the fact of the rain and snow.

John M. Holia 4/15/14
CLIENT REPRESENTATIVE DATE

James A. Todio CQA
NAME & TITLE

[Signature] 4/15/2014
AEGL SUPERINTENDENT DATE



AEGL DAILY DIARY

DATE: 4/16/2014

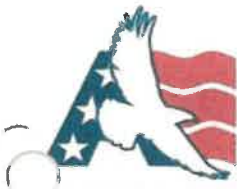
PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		RISER HEIGHT:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
MISC. ITEMS / EXTRA DETAIL: (Described Below) 12 bags of bentonite for plugs on horizontals		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
WEATHER & TIME INFORMATION			
DAILY CONDITIONS: clear			
START TIME 7:00AM			
STOP TIME 5:15PM			

Today we started with our morning safety meeting and then went over and dug up 24" tie in to find blind flange. Once we found tie in point we left hole open and then went up on top and fused up 24" pipe and fittings. We also had sand come in and we staged it down by the job trailer. We then went down to Horizontal #1 and covered trash that was showing on the south end of the lateral. Once dress up work was complete we wrapped things up and left for the day.

John M. Kedia 4/16/14
CLIENT REPRESENTATIVE DATE
Robert A. Tobia CQA
NAME & TITLE

[Signature] 4/16/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/17/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
MISC. ITEMS / EXTRA DETAIL: (Described Below)		LATERAL: #	PIPE DIA.
60ft of 48" CMP replaced		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: # EW-18	PIPE DIA. 4x2
		STATION: 0+00 to 0+75	LINEAR FT. 75'
		RISER HEIGHT:	TRENCH DEPTH 3'
		AIR: # EW-18	PIPE DIA. 2"
		STATION: 0+00 to 0+75	LINEAR FT. 75'
		RISER HEIGHT:	TRENCH DEPTH 3'

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
clear	
START TIME	7:00AM
STOP TIME	9:30PM

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went over and dug on 24" header. Once we dug up tie in point to CMP we then went on the other side and dug down to 24" valve. But when we looked inside the 48" CMP we found that CMP was pinched shut do to all the weight of the trucks going to the face. So Bob had a meeting with Chris and they wanted us to dig up CMP and replace it with new and put road plates across road until we got pipes through cmp and fill CMP with concrete. So therefore we stopped what we were doing and went on the south slope and dug 2" air and 4x2 dual contain forcemain at EW-18. Once we had pipe built and on air test we dug up tie in point and started installing tees for tie in going to EW-18. Once we had air testing on for 4hrs Janet the QC checked and passed air test so we tied in pipes coming from EW-18. Once we had everything back filled we then went back over to the road crossing after the site had closed and dug up 48" cmp and replaced with new 48"cmp. We replaced 60ft of cmp. Once we shot in cmp and it all had grade we then back filled road and put road plates across road crossing. Once road plates were in place we wrapped things up and left for the day.

Note: We had a total of 10hrs at T&M rate for road crossing.

Janet A Todia 4/17/14
CLIENT REPRESENTATIVE DATE
Janet A Todia CQA
NAME & TITLE

[Signature] 4/17/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/18/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-13-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:	24" Butterfly, 12" Butterfly	HEADER: # 24" Header	PIPE DIA. 24"
VALVE STEMS:		STATION: 0+00 to 2+83	LINEAR FT. 283'
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:		AIR: # 24" Header	PIPE DIA. 2"
QED VAULT KITS:		STATION: 0+00 to 2+83	LINEAR FT. 283'
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH 3' to 5'
ENCASEMENTS:		FORCEMAIN: # 24" header	PIPE DIA. 4"
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION: 0+00 to 0+83	LINEAR FT. 83'
		RISER HEIGHT:	TRENCH DEPTH 3' to 5'
		FORCEMAIN: # 24" header	PIPE DIA. 8"x4" dual
		STATION: 0+83 to 2+83	LINEAR FT. 200'
		RISER HEIGHT:	TRENCH DEPTH 3' to 5'
WEATHER & TIME INFORMATION		LATERAL: #	PIPE DIA.
DAILY CONDITIONS: Clear		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
START TIME 7:00AM			
STOP TIME 6:00PM			

Today we started with our morning safety meeting and then went over and started feeding 24" header thru 48" CMP. However we had to fix CMP the day before was still messed up so we had to dig CMP back up and cut bad part of of CMP and then put cmp back together . Once cmp was fixed we finished putting 24" pipe thru and then feed the 8x4 forcemain and 2" air . Once pipes were installed we went up to tie in and fused a 24" flange with a 45 elbow and then bolted up to existing blind flange. Once we had bolt up done we put 24" Y joint at 0+83. We then went down and installed 24" flange at 2+83 and bolted up 24" butterfly valve half way up. Once bolt up to valve was complete we then also went up to the 24" Y and bolted up 12" butterfly valve half way up. We then installed 4" and 2" tees into air and forcemain lines going to the 12" header side. We then changed 4" forcemain line to dual contain at 0+83. Once we had pipes in trench line we had to wrap thing up and leave for the day do to the fact we have to be out the gate by 6 PM.

John A. Todio 4/18/14
CLIENT REPRESENTATIVE DATE
John A. Todio CQA
NAME & TITLE

John A. Todio 4/18/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/19/2014

PROJECT NAME: Lorain County Landfill

CLIENT/PROJECT# 202-13-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		AIR: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		FORCEMAIN: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:			
MISC. ITEMS / EXTRA DETAIL: (Described Below)		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
WEATHER & TIME INFORMATION		HEADER: #	PIPE DIA.
DAILY CONDITIONS:		STATION:	LINEAR FT.
Clear		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
START TIME 7:00AM		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
STOP TIME 7:00PM		RISER HEIGHT:	TRENCH DEPTH

COMMENTS (Description of Work Order Completed):

To we started with our morning safety meeting and then went over and finished up 24" header by the road crossing. We started by marking out pipe and shotting pipe in at 1% or more grade so we then finshi up pipe work and started back filling trench line. We set survey risers every 50ft mark and fittings. We then also packed clay in front of each end of the 48" cmp so we can fill cmp up with concrete first thing Monday morning. We tghen cleaned up all trash and pipe around area and trench line. We also taped off all open holes and tarped tie in area off. Once back filling was complete we went up top and fused up 24" pipe. We then did some house keeping and then wrapped things up and left for the day.

Amelia 4/12/14
CLIENT REPRESENTATIVE DATE
Janet A. Toledo CQA
NAME & TITLE

James B. ... 4/12/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/20/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION
DAILY CONDITIONS:
START TIME
STOP TIME

COMMENTS (Description of Work Order Completed):

Today we didnt work.

James A. Todis 4/20/14
CLIENT REPRESENTATIVE DATE
James A. Todis CQA
NAME & TITLE

James A. Todis 4/20/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/21/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY
VALVES:	
VALVE STEMS:	
LAND-TEC WELLHEADS:	
IN-LINE SUMPS:	
QED VAULT KITS:	
QED PUMPS:	
ENCASEMENTS:	
MISC. ITEMS / EXTRA DETAIL: (Described Below)	
WEATHER & TIME INFORMATION	
DAILY CONDITIONS: clear	
START TIME 7:00AM	
STOP TIME 6:00PM	

HEADER: # 12" Header	PIPE DIA. 12"
STATION: 0+00 to 3+70	LINEAR FT. 370'
HAR:	TRENCH DEPTH 3' to 5'
AIR: # 12" Header	PIPE DIA. 2"
STATION: 0+00 to 3+70	LINEAR FT. 370'
RISER HEIGHT:	TRENCH DEPTH 3' to 5'
FORCEMAIN: # 12" Header	PIPE DIA. 4"
STATION: 0+00 to 3+70	LINEAR FT. 370'
RISER HEIGHT:	TRENCH DEPTH 3' to 5'
AIR: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
FORCEMAIN: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
AIR: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
FORCEMAIN: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
AIR: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH

Today we started with two guys coming in at 5:30AM for concrete trucks arrive at 6:00AM. Once concrete arrived we helped trucks and put concrete into 48" CMP. We had a total of 4 trucks come and it added up to 40 yards. After cmp was full we then went down to the job trailer and had our morning safety meeting and then went over and started trenching on 12" header on the north slope. While we were trenching we fused up fittings and pipe for header. Once trenching was complete we started by bolting up to 12" valve that we installed Friday. We then went up and installed 2-12x6 tee risers for Horizontal #1 and EW-309 at 1+32 and 1+34. We then moved machine and installed a 12x6 tee riser at 2+89 for Horizontal #2 and then installed a 12x6 tee pointing up the hill for 6" lateral to EW-306R at 2+91. We then went up to 3+67 and installed a 12" cleanout riser. Once 12" was all fused up in trench line we shot in pipe at 3% or more grade so we then put 2" air and 4" forcemain into same trench as 12" header pipe. We installed 2" tee and 4" tee going up the hill at 2+89 for EW-306R. Once all pipes were in trench line we started hauling dirt and back filled trench line. We set survey risers every 50ft mark and fittings. Once we had back filling complete we then unloaded trucks and wrapped things up for the day.

CLIENT REPRESENTATIVE

AEGL SUPERINTENDENT

DATE

NAME & TITLE



**American
Environmental
Group Ltd.**

AEGL DAILY DIARY

DATE: 4/22/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:	2" stainless steel valve	HEADER: # 12" Header	PIPE DIA. 12"
VALVE STEMS:		STATION: 3+70 to 6+10	LINEAR FT. 240'
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		AIR: # 12" Header	PIPE DIA. 2"
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION: 3+70 to 6+10	LINEAR FT. 240'
		RISER HEIGHT:	TRENCH DEPTH 3' to 5'
		FORCEMAIN: # 12" Header	PIPE DIA. 4"
		STATION: 3+70 to 6+10	LINEAR FT. 240'
		RISER HEIGHT:	TRENCH DEPTH 3' to 5'
WEATHER & TIME INFORMATION		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
DAILY CONDITIONS: cloudy/sunny		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
START TIME 7:00AM		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
STOP TIME 5:00PM		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went on the north slope and started trenching on 12" header. While were trenching on header we fabbed up tees and pipe. Once trench was complete we then started installing 12" pipe. We started by putting 12x6 tee riser at 4+40 for H-3 then installed a 12x6 pointing up the hill for 6" lateral going to EW-307R. Once were installed we then went over and installed a 12x6 tee riser for H-4 at 5+92 and then put a 12x6 tee pointing up the hill going to EW-308R at 5+96. We then put 12" buttcap past tie in point. Once 12" was in bottom of trench line we shot pipe in at 3% or more grade so we then installed 2" air and 4" forcemain line in same trench as 12" header pipe. We installed 2' and 4" tees at 4+40 for lateral going to EW-307R. We then went down at 6+10 and installed 4" y cleanouts. Once all pipes we were trench line we then started hauling dirt and started back filling trench line. We set survey risers every 50ft mark and fittings. We also rolled caution tape down trench line. While we were back filling trench line we went down by the 12" valve and installed 2" blow off with 2" stainless steel ball valve for isolation. Also Bob went around on trench line we already did and dressed up areas. Once back filling was complete we wrapped things up and left for the day.

Janet A. Todd 4/22/14
CLIENT REPRESENTATIVE DATE

John B. Quinn 4/22/2014
AEGL SUPERINTENDENT DATE

Janet A. Todd CQA
NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/23/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		RISER HEIGHT:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
MISC. ITEMS / EXTRA DETAIL: (Described Below)		LATERAL: #	PIPE DIA.
12 bags of bentonite for plugs on horizontals		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

Today we started with our morning safety meeting and then went over and started trenching on the 24" header. While we were trenching we fused up pipe and fittings. However when Bob got out of the meeting this morning they added tees into the 24" header for the cleanouts. Once we got close to where the sump was going we had cave in problems and water problems in trench line so we stopped trenching for the day. Once we had all tees fused in to 24" pipe we set beside trench but do to the fact we had to be off site by 6:00PM we wrapped things up and caution taped trench line and left for the day.

Amelia 4/23/14
CLIENT REPRESENTATIVE DATE
Isaac A. Todor CQA
NAME & TITLE

John D. B. [Signature] 4/23/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/24/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:	1-4" stainless steel valve	HEADER: # 24" header	PIPE DIA. 24"
VALVE STEMS:		STATION: 2+83 to 4+80	LINEAR FT. 197'
LAND-TEC WELLHEADS:		HAR: _____	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:		AIR: # 24" header	PIPE DIA. 2"
QED VAULT KITS:		STATION: 2+83 to 4+80	LINEAR FT. 197'
QED PUMPS:		RISER HEIGHT: _____	TRENCH DEPTH 3' to 5'
ENCASEMENTS:		FORCEMAIN: # 24" header	PIPE DIA. 8x4 dual cont.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION: 2+83 to 4+80	LINEAR FT. 197'
		RISER HEIGHT: _____	TRENCH DEPTH 3' to 5'
		LATERAL: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
WEATHER & TIME INFORMATION		HEADER: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		FORCEMAIN: # _____	PIPE DIA. _____
DAILY CONDITIONS: clear		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		AIR: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
START TIME 7:00AM			
STOP TIME 6:00PM			

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went over to the 24" header trench that we did yesterday and started by draining the water out of 24" header going thru the road. Once water was all drain out we then put 24" header in trench line and made bolt up to 24" butterfly valve. We put a 24x6 tee at 3+61 for 6" cleanout. We then put 24" cleanout at 4+28 and then ran pipe to sump. Once pipe was in bottom of trench we shot in pipe at 1% or more grade so we put 2" air and 8x4 dual contain forcemain in same trench line. We then fused in 8x4 y's for cleanout risers and installed 2" and 8x4 tee risers where sump is going and fused in pipe to make it where header ends for air testing. We then also put blind on 24" flange and cleanout riser so we can air test header as soon as we run 6" lateral on north slope. Once all pipe was in trench line we then started back filling header. We started by put sand half way up the 24" header pipe and then put 1ft of dirt over top of pipe. While we were back filling the parts came in for the 4" forcemain isolation valve so we built isolation valve and installed valve in at 12" valve. Also surveyors came in today and shot all riser pipe. Bob also went and dressed up more laterals so we can get signed off on them. We then went up top and did some clean up work then wrapped things up and left for the day.

John M. Kralie 4/24/14
CLIENT REPRESENTATIVE DATE
Sanet A Toldis CQA
NAME & TITLE

John D. B. G. 4/24/2014
AEGL SUPERINTENDENT DATE



DATE: 4/25/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT# 202-13-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: # _____	PIPE DIA. _____
VALVE STEMS:		STATION: _____	LINEAR FT. _____
LAND-TEC WELLHEADS:		HAR: _____	TRENCH DEPTH _____
IN-LINE SUMPS:		AIR: # _____	PIPE DIA. _____
QED VAULT KITS:		STATION: _____	LINEAR FT. _____
QED PUMPS:		RISER HEIGHT: _____	TRENCH DEPTH _____
ENCASEMENTS:		FORCEMAIN: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
MISC. ITEMS / EXTRA DETAIL: (Described Below)		RISER HEIGHT: _____	TRENCH DEPTH _____
		FORCEMAIN: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		FORCEMAIN: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
WEATHER & TIME INFORMATION		LATERAL: # _____	PIPE DIA. _____
DAILY CONDITIONS: cloudy/rain		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		FORCEMAIN: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
START TIME 7:00AM		AIR: # _____	PIPE DIA. _____
STOP TIME 11:00AM		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____

Today we started with our morning safety meeting and then went up on the hill and made 2" tie in for the air and forcemain laterals coming from EW-313. Once tie in were complete we then hauled stone over to horizontal #2 for Saturdays work. While we were hauling stone we went up top at our staging area and did clean up work. Once we had rock hauled up to trench line it started raining so we wrapped things up and left for the day.

CLIENT REPRESENTATIVE

DATE _____

A EGL SUPERINTENDENT

DATE _____

NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/26/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT# 202-13-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HORIZONTAL: # Horizontal #2	PIPE DIA. 6" Perf
VALVE STEMS:		STATION: 2+00 to 3+20	LINEAR FT. 120'
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:		HORIZONTAL: # Horizontal #2	PIPE DIA. 6" Perf
QED VAULT KITS:		STATION: 3+20 to 5+06	LINEAR FT. 186'
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH 5' to 7'
ENCASEMENTS:		AIR: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION

DAILY CONDITIONS:
clear

START TIME 7:00AM

STOP TIME 4:00PM

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went over and started trenching on Horizontal #2. While we were trenching we went behind and put 1ft of stone in bottom of trench at 3% grade. Once we finished trenching for the day and bottom of trench was rock we then put 6" perf pipe in trench line and shot in pipe at 3% or more grade so we then went and put 2 more feet over top of 6" perf pipe and rolled fabric over top of rock and then started back filling trench line. We then hauled up stone up to horizontal and rolled back in the rock that we removed from there deck. Once rock was back in and back filling was complete we finished covering up the face and then went over and removed steel road plates from the 24" header. Once road plate were removed we then dug down 2ft and put liner under rock and then back filled road crossing. we then hauled 1 load of stone up and then took roller and rolled back in road. After road was completely back in we then wrapped things up and left for the day.

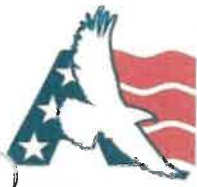
CLIENT REPRESENTATIVE

DATE

AEGL SUPERINTENDENT

DATE

NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/27/2014

PROJECT NAME: Lorain County Landfill

CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
START TIME _____	
STOP TIME _____	

COMMENTS (Description of Work Order Completed):

Today we didnt work.

John M. Loria 4/27/14
CLIENT REPRESENTATIVE DATE
James A. Todio CQA
NAME & TITLE

[Signature] 4/27/2014
AEGL SUPERINTENDENT DATE



**American
Environmental
Group Ltd.**

AEGL DAILY DIARY

DATE: 4/28/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction			
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		AIR: # EW-162	PIPE DIA. 2"
QED VAULT KITS:		STATION: 0+00 to 1+21	LINEAR FT. 121'
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH 3'
ENCASEMENTS:		FORCEMAIN: # EW-162	PIPE DIA. 2"
		STATION: 0+00 to 1+21	LINEAR FT. 121'
MISC. ITEMS / EXTRA DETAIL: (Described Below)		RISER HEIGHT:	TRENCH DEPTH 3'
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION

DAILY CONDITIONS:
cloudy/rain

START TIME 7:00AM

STOP TIME 11:30AM

Today we started with our morning safety meeting and then went over and trenched 2" air 2" forcemain over at EW-162. While we were trenching we prep up pipe and got pipe ready for air testing. Once trench was dug we put pipe in trench line and put 2" air and forcemain on air test. We put 2" air at 100 psi and the 2" forcemain at 50psi for 4 hours. While air test was on we dug up existing air and forcemain and made tie in with 2" tee for the air and a 4" tee reduced to 2" on port side of tee. Once air test was checked and passed by Janet the QC. We tied in pipes to tees. After everything was tied in we marked out pipe and then started back filling trench line. We set survey risers every 50ft mark and fittings and also rolled caution tape down trench line. While we were back filling trench line we also hauled dirt to north slope and did some dress up work with the dozer. Then the rain came in so we unloaded trucks and wrapped things up for the day.

CLIENT REPRESENTATIVE

NAME & TITLE

AEGL SUPERINTENDENT

DATE

4/28/2014



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/29/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		AIR: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
START TIME	
STOP TIME	

COMMENTS (Description of Work Order Completed):

Today we didn't work but however Dean and Bob attended the weekly construction meeting with Chris.

Joe Mierha 4/29/14
CLIENT REPRESENTATIVE DATE
Bob A. Tieda CQA
NAME & TITLE

John D. B. Gatti 4/29/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 4/30/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		RISER HEIGHT:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
MISC. ITEMS / EXTRA DETAIL: (Described Below)		LATERAL: #	PIPE DIA.
12 bags of bentonite to plug off horizontals		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION
DAILY CONDITIONS: rain
START TIME _____
STOP TIME _____

Today we didn't work do to the fact of the weather.

John M. Miller 4/30/14
CLIENT REPRESENTATIVE DATE
James A. Todio CEA
NAME & TITLE

John A. B. G. 4/30/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/1/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		AIR: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		FORCEMAIN: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS: sloppy/muddy	
START TIME	
STOP TIME	

COMMENTS (Description of Work Order Completed):

Today we didn't work do to all the rain and sloppy conditions.

John M. Larkin 5/1/14
CLIENT REPRESENTATIVE DATE
Tina A. Todor CQA
NAME & TITLE

John D. B. Larkin 5/1/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/2/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-13-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		AIR: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
MISC. ITEMS / EXTRA DETAIL: (Described Below)		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS: muddy/stloppy	
START TIME _____	
STOP TIME _____	

Today we shut down for the weekend do to all the rain and muddy conditions.

Joe M. Mchela 5/2/14
CLIENT REPRESENTATIVE DATE
Ernest A Todor CQA
NAME & TITLE

Joe A. D. B. [Signature] 5/2/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/3/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-13-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HORIZONTAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		HORIZONTAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		AIR: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
START TIME	
STOP TIME	

COMMENTS (Description of Work Order Completed):

Today we didn't work

John A. Todda 5/3/14
CLIENT REPRESENTATIVE DATE
John A. Todda CAA
NAME & TITLE

John A. Todda 5/3/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/4/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

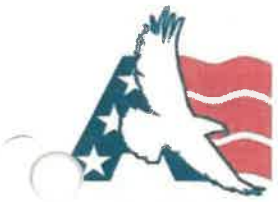
WEATHER & TIME INFORMATION
DAILY CONDITIONS:
START TIME
STOP TIME

COMMENTS (Description of Work Order Completed):

Today we didnt work.

James A. Todia 5/4/14
CLIENT REPRESENTATIVE DATE
James A. Todia CQA
NAME & TITLE

James A. Todia 5/4/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/5/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY
VALVES:	
VALVE STEMS:	
LAND-TEC WELLHEADS:	
IN-LINE SUMPS:	
QED VAULT KITS:	
QED PUMPS:	
ENCASEMENTS:	
MISC. ITEMS / EXTRA DETAIL: (Described Below) 40ft of 12" CMP	
WEATHER & TIME INFORMATION	
DAILY CONDITIONS: cloudy	
START TIME 7:00AM	
STOP TIME 6:00PM	

LATERAL: # EW-308 and EW-304R	PIPE DIA. 6"
STATION: 0+00 to 3+41	LINEAR FT. 341'
HAR:	TRENCH DEPTH 3'
AIR: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
FORCEMAIN: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
AIR: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
FORCEMAIN: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
AIR: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
FORCEMAIN: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
AIR: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH

Today we started with our morning safety meeting and then went up on the hill and trench on 6" lateral going to EW-308 and EW-304R. Once we had trench open we went down and fused in 6" lateral to 12x6 tee in the new 12" header. We then went up and installed a 6" tee riser at EW-308. We then put 40ft of 12" cmp in trench line and feed pipe thru cmp. Once pipe was fused and feed thru 12" CMP we then went up and installed a 6" 90 riser at EW-304R. Once pipe was shot in and on grade we started hauling dirt and back filled trench line. We set survey risers every 50ft mark and fittings. Once back filling was complete we then unloaded trucks and wrapped things up for the day.

CLIENT REPRESENTATIVE

NAME & TITLE

AEGL SUPERINTENDENT

DATE

5/5/2014



AEGL DAILY DIARY

DATE: 5/6/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		AIR: # EW-307R	PIPE DIA. 2"
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION: 0+00 to 1+31	LINEAR FT. 131'
		RISER HEIGHT:	TRENCH DEPTH 3'
		FORCEMAIN: # EW-307R	PIPE DIA. 2"
		STATION: 0+00 to 1+31	LINEAR FT. 131'
		RISER HEIGHT:	TRENCH DEPTH 3'
		AIR: # EW-306R	PIPE DIA. 2"
		STATION: 0+00 to 1+26	LINEAR FT. 126'
		RISER HEIGHT:	TRENCH DEPTH 3'
		FORCEMAIN: # EW-306R	PIPE DIA. 2"
		STATION: 0+00 to 1+26	LINEAR FT. 126'
		RISER HEIGHT:	TRENCH DEPTH 3'
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went up on the hill and trenched 2" air and forcemain lines at EW-307R and 306R. While we were trenching we prep up pipes and fittings once both trenches were dug we then put existing 6" laterals that were on top of ground for Ew-307R which was 131ft and EW-306R which was 126ft. We then installed 2" air and 2" forcmain in both trenches and tied in pipes at the new 12" header. Once pipes were in trench lines we then marked out pipe and started back filling trench lines. We then hauled dirt to trench lines and set survey risers every 50ft mark and fittings. Once back filling was complete we then hauled dirt down to horizational #3 for tomorrows work. We also put air test on all new header pipe and 6" laterals coming off of the header. We put air test at 20psi for 4hrs and Janet the QC checked and passed air test. We then wrapped things up and left for the day.

NOTE: Water truck and water pump arrived today so we started billing for it.

John M. Lucia 5/16/14
CLIENT REPRESENTATIVE DATE

John D. B. [Signature] 5/6/2014
AEGL SUPERINTENDENT DATE

Fort A. Todis CAA
NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/7/2014

PROJECT NAME: Lorain County Landfill

CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		RISER HEIGHT:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL:#	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
MISC. ITEMS / EXTRA DETAIL: (Described Below)		LATERAL:#	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
WEATHER & TIME INFORMATION		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN:#	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
DAILY CONDITIONS:			
rain			
START TIME _____			
STOP TIME _____			

Today we didn't work do to the fact of the rain in the morning and sloppy conditions

John A. Tadio 5/7/14
CLIENT REPRESENTATIVE DATE

John A. Tadio CCA
NAME & TITLE

John A. Tadio 5/7/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/8/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HORIZONTAL: # H-3	PIPE DIA. 6" Perf
VALVE STEMS:		STATION: 1+50 to 3+10	LINEAR FT. 160'
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH 8' to 10'
IN-LINE SUMPS:		HORIZONTAL: # H-3	PIPE DIA. 6" Perf
QED VAULT KITS:		STATION: 3+10 to 4+20	LINEAR FT. 110'
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH 5' to 7'
ENCASEMENTS:		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

MISC. ITEMS / EXTRA DETAIL: (Described Below)
Raised 6" riser at north end 10ft for H-2 1 hour

WEATHER & TIME INFORMATION

DAILY CONDITIONS:
clear

START TIME 7:00AM
STOP TIME 6:15PM

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then loaded trucks and went over and dug on Horizontal#3. While we were trenching on horizontal the site need riser for H-2 raised 10ft and SCS didn't have enough guys so we went over and raised 6" riser. We had 2 guys and a hoe over there for 1 hour. When riser was raised we then went back and put stone in bottom of trench 1ft thick. Then we also installed and tee sump at low point 1+96. Once all rock was in bottom of trench line we set 6" perf pipe in trench line and shot in pipe. Once we knew all pipe had 3% or more grade we started putting stone over top of the 6" perf pipe 2ft thick. After all pipe and sump hole was completely filled we then ran fabric over top of stock pack and started back filling trench line. Once back filling was complete and lateral was dressed up we wrapped things up and left for the day.

John M. Media 5/8/14
CLIENT REPRESENTATIVE DATE

John D. B. [Signature] 5/8/2014
AEGL SUPERINTENDENT DATE

Vern A. Todio CQA
NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/9/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-13-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		AIR: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		FORCEMAIN: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS: cloudy/rain	
START TIME	7:00AM
STOP TIME	4:45PM

Today we started with our morning safety meeting and then went and fixed forcemain y that got broke and also hauled dirt and stone to horizontal #3. Once we finished hauling dirt and rock we wrapped things up and left for the day.

John A. Tolia 5/9/14
CLIENT REPRESENTATIVE DATE

John A. Tolia 5/9/2014
AEGL SUPERINTENDENT DATE

John A. Tolia CEA
NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/10/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT# 202-13-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HORIZONTAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		HORIZONTAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		AIR: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
START TIME	
STOP TIME	

COMMENTS (Description of Work Order Completed):

Today we didn't work

John A. Todia 5/10/14
CLIENT REPRESENTATIVE DATE
John A. Todia CQA
NAME & TITLE

John B. G... 5/10/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/11/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
START TIME _____	
STOP TIME _____	

COMMENTS (Description of Work Order Completed):

Today we didnt work.

John M. L... 5/11/14
CLIENT REPRESENTATIVE DATE
James R. Todis CQA
NAME & TITLE

[Signature] 5/11/2014
AEGL SUPERINTENDENT DATE



**American
Environmental
Group Ltd.**

AEGL DAILY DIARY

DATE: 5/12/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction			
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HORIZONTAL: # Horizontal #3	PIPE DIA. 6" Perf
VALVE STEMS:		STATION: 4+20 to 4+60	LINEAR FT. 40'
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:		HORIZONTAL: # Horizontal #3	PIPE DIA. 6" Perf
QED VAULT KITS:		STATION: 4+60 to 5+30	LINEAR FT. 70'
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH 5' to 7'
ENCASEMENTS:		HORIZONTAL: # Horizontal #3	PIPE DIA. 6" Perf
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION: 5+30 to 5+60	LINEAR FT. 30'
		RISER HEIGHT:	TRENCH DEPTH 3' to 5'
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
WEATHER & TIME INFORMATION		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
DAILY CONDITIONS: cloudy/Rain		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
START TIME 7:00AM STOP TIME 12:30PM		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

Today we started with our morning safety meeting and then went over and dug on Horizontal #3. While we were digging we prep up pipe and then put bottom of trench line on grade with stone at 3% or more grade. We then installed a 6" tee with 6" perf pipe on port side for low point sump at 5+00. Once tee was fused in we dropped pipe into 7ft sump hole. After all pipe was in bottom of trench line we shot in pipe at 3% or more grade and then started putting rock 2ft above 6" perf pipe. Once all pipe was covered with rock we rolled fabric over top of rock pack and back filled trench line. We set survey risers every 100 ft mak and fittings. Once back filling was complete we then started hauling dirt to horizontal #2 but then the rain came in and we then wrapped things up and left for the day.

Amelia 5/12/14
CLIENT REPRESENTATIVE

[Signature]
AEGL SUPERINTENDENT

5/12/2014
DATE

Traci A. Todia GQA
NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/13/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		AIR: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
in	
START TIME	
STOP TIME	

COMMENTS (Description of Work Order Completed):

Today we didnt work

John A. Tolia 5/13/14
CLIENT REPRESENTATIVE DATE
John A. Tolia CQA
NAME & TITLE

[Signature] 5/13/2014
AEGL SUPERINTENDENT DATE



DATE: 5/14/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: # _____	PIPE DIA. _____
VALVE STEMS:		STATION: _____	LINEAR FT. _____
LAND-TEC WELLHEADS:		RISER HEIGHT: _____	TRENCH DEPTH _____
IN-LINE SUMPS:		LATERAL:# _____	PIPE DIA. _____
QED VAULT KITS:		STATION: _____	LINEAR FT. _____
QED PUMPS:		RISER HEIGHT: _____	TRENCH DEPTH _____
ENCASEMENTS:		LATERAL: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
MISC. ITEMS / EXTRA DETAIL: (Described Below)		RISER HEIGHT: _____	TRENCH DEPTH _____
		LATERAL:# _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		LATERAL # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		LATERAL:# _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		AIR: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		FORCEMAIN:# _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		_____	_____
		_____	_____

Today we didnt work

 5/14/14
 CLIENT REPRESENTATIVE DATE
 CQA
 NAME & TITLE

 5/14/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/15/2014

PROJECT NAME: Lorain County Landfill

CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HORIZONTAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		HORIZONTAL: #	PIPE DIA.
OED VAULT KITS:		STATION:	LINEAR FT.
OED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		FORCEMAIN: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
Rain	
START TIME	
STOP TIME	

COMMENTS (Description of Work Order Completed):

Today we didnt work

John M. Miller 5/15/14
CLIENT REPRESENTATIVE DATE

Tony A. Todor CBA
NAME & TITLE

John B. Miller
AEGL SUPERINTENDENT

5/15/2014
DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

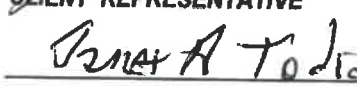
DATE: 5/16/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-13-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		AIR: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		FORCEMAIN: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS: Rain	
START TIME _____	
STOP TIME _____	

Today we didnt work

 5/14/14
CLIENT REPRESENTATIVE DATE
 CQA
NAME & TITLE

 5/16/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/17/2014

PROJECT NAME: Lorain County Landfill

CLIENT/PROJECT# 202-13-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HORIZONTAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		HORIZONTAL: #	PIPE DIA.
OED VAULT KITS:		STATION:	LINEAR FT.
OED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:			
MISC. ITEMS / EXTRA DETAIL: (Described Below)		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
Rain	
START TIME	
STOP TIME	

COMMENTS (Description of Work Order Completed):

Today we didnt work

CLIENT REPRESENTATIVE

DATE

John A. Tolz CQA

NAME & TITLE

AEGL SUPERINTENDENT

5/17/2014

DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/18/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
OED VAULT KITS:		STATION:	LINEAR FT.
OED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION
DAILY CONDITIONS:
START TIME _____
STOP TIME _____

COMMENTS (Description of Work Order Completed):

Today we didnt work.

John A. Todia 5/18/14
CLIENT REPRESENTATIVE DATE
John A. Todia CQA
NAME & TITLE

Julius B. [Signature] 5/18/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/19/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY
VALVES:	
VALVE STEMS:	
LAND-TEC WELLHEADS:	
IN-LINE SUMPS:	
QED VAULT KITS:	
QED PUMPS:	
ENCASEMENTS:	
MISC. ITEMS / EXTRA DETAIL: (Described Below)	
WEATHER & TIME INFORMATION	
DAILY CONDITIONS: Clear	
START TIME 7:00AM	
STOP TIME 4:45PM	

HORIZONTAL: #	PIPE DIA.
STATION:	LINEAR FT.
HAR:	TRENCH DEPTH
HORIZONTAL: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
HORIZONTAL: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
AIR: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
FORCEMAIN: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
AIR: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
FORCEMAIN: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
AIR: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH

Today we started with our morning safety meeting and then started hauling dirt and stone to horizontal collectors. While we were hauling dirt and stone we went over and trenched a dirt and drained water out of trench on the 24" header pipe. Once we finished hauling dirt we wrapped things up and left for the day.

CLIENT REPRESENTATIVE

NAME & TITLE

AEGL SUPERINTENDENT

DATE



**American
Environmental
Group Ltd.**

AEGL DAILY DIARY

DATE: 5/20/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HORIZONTAL: # 3	PIPE DIA. 6" Perf
VALVE STEMS:		STATION: 5+60 to 6+58	LINEAR FT. 98'
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:		HORIZONTAL: # 2	PIPE DIA. 6" Perf
QED VAULT KITS:		STATION: 5+06 to 6+90	LINEAR FT. 184'
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH 7' to 10'
ENCASEMENTS:		HORIZONTAL: # 2	PIPE DIA. 6" Perf
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION: 6+90 to 7+07	LINEAR FT. 17'
		RISER HEIGHT:	TRENCH DEPTH 5' to 7'
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
WEATHER & TIME INFORMATION		AIR: #	PIPE DIA.
DAILY CONDITIONS:		STATION:	LINEAR FT.
clear		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
START TIME 7:00AM		STATION:	LINEAR FT.
STOP TIME 7:45PM		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went over and dug on Horizontal collectors 2 and 3. Once we finished trenching on horizontals we then put stone in bottom of trench lines 1ft thick at 3% grade. Once bottom of trenches were stone we then set in pipes and shot in at 3% or more grade so we then started back fillin g trench lines we started by put rock over top of 6" perf pipe 2ft thick and after pipes were covered with stone we then rolled fabric over top of rock pack and then back filled trench lines . We set survey risers every 100ft mark and fittings. Once we finished back filling we hauled dirt up to horizontals for tomorrows work. We then wrapped things up and left for the day.

John M. Miller 5/20/14
CLIENT REPRESENTATIVE DATE

[Signature] 5/20/2014
AEGL SUPERINTENDENT DATE

James H. Tobin CRA
NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/21/2014

PROJECT NAME: Lorain County Landfill

CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HORIZONTAL: # #1	PIPE DIA. 6" Perf
VALVE STEMS:		STATION: 3+80 to 4+80	LINEAR FT. 100'
LAND-TEC WELLHEADS:		RISER HEIGHT:	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:		HORIZONTAL: # #1	PIPE DIA. 6" Perf
QED VAULT KITS:		STATION: 4+80 to 5+20	LINEAR FT. 40'
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH 5' to 7'
ENCASEMENTS:		HORIZONTAL: # #1	PIPE DIA. 6" Perf
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION: 5+20 to 5+89	LINEAR FT. 79'
		RISER HEIGHT:	TRENCH DEPTH 7' to 10'
		HORIZONTAL: # #3	PIPE DIA. 6" Perf
		STATION: 6+58 to 7+60	LINEAR FT. 102'
		RISER HEIGHT:	TRENCH DEPTH 5' to 7'
		LATERAL #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
WEATHER & TIME INFORMATION		RISER HEIGHT:	TRENCH DEPTH
DAILY CONDITIONS: cloudy/sunny		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
START TIME 7:00AM		FORCEMAIN: #	PIPE DIA.
STOP TIME 9:45PM		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

Today we started with our morning safety meeting and then went over and started trenching on horizontal collector 1. Once we dug up to the road we stopped until after hours so we could go thru road crossing. We then went over to horizontal 3 and started trenching while we were trenching on horizontal 3 we installed a 6" tee sump at low point for horizontal 3. Once we finished trenching on horizontal we then put stone in bottom of trench line 1ft thick and then installed pipe in trench line and shot in pipe at 3% or more grade so we then put stone over top of pipe 2ft thick and rolled fabric over top of stone. We then started back filling trench line. While we were back filling horizontal 3 we then jumped back on horizontal 1 and dug thru road crossing. Once we had stone in bottom of trench line we set pipe in trench line and shot in pipe at 3% grade so we then also put stone over top of pipe and rolled fabric over top of stone and back filled trench line and road crossing. We set survey risers every 100ft mark and finished back filling trench lines. We then went over to the active face and covered trash up with there tarps and then wrapped things up and left for the day.

CLIENT REPRESENTATIVE

DATE

AEGL SUPERINTENDENT

5/21/2014

DATE

NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/22/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HORIZONTAL: # H-1	PIPE DIA. 6"
VALVE STEMS:		STATION: 5+89 to 6+60	LINEAR FT. 71'
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH 7' to 10'
IN-LINE SUMPS:		HORIZONTAL: # H-1	PIPE DIA. 6" Perf
QED VAULT KITS:		STATION: 6+60 to 6+80	LINEAR FT. 20'
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH 5' to 7'
ENCASEMENTS:		HORIZONTAL: # H-4	PIPE DIA. 6" Perf
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION: 0+00 to 0+40	LINEAR FT. 40'
		RISER HEIGHT:	TRENCH DEPTH 5' to 7'
		HORIZONTAL: # H-4	PIPE DIA. 6" Perf
		STATION: 0+40 to 1+74	LINEAR FT. 134'
		RISER HEIGHT:	TRENCH DEPTH 7' to 10'
WEATHER & TIME INFORMATION		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
DAILY CONDITIONS: Clear		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
START TIME 7:00AM		AIR: #	PIPE DIA.
STOP TIME 6:45PM		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went over and finished trenching as far as we could on Horizontal #1 and then went over and started trenching on Horizontal #4. While we were trenching on Horizontal # 4 we installed a 6" tee with 5ft of perf on the port side of tee for sump hole at 1+22. Once we finished trenching on both trenches we put rock in bottom of trenches 1ft thick and then installed pipe in trench line and shot in pipe at 3% or more grade. So we then put rock over top of 6" pipe 2ft thick and rolled fabric over top of rock pack. We then started hauling dirt and back filling trench line we set survey risers every 100ft mark. Once back filling was complete we wrapped things up and left for the day.

John A. Todia 5/22/14
CLIENT REPRESENTATIVE DATE
John A. Todia CEA
NAME & TITLE

[Signature] 5/22/2014
AEGL SUPERINTENDENT DATE

**AEGL DAILY DIARY**

DATE: 5/23/2014

PROJECT NAME: Lorain County Landfill

CLIENT/PROJECT# 202-14111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HORIZONTAL: # H-4	PIPE DIA. 6"Perf
VALVE STEMS:		STATION: 1+74 to 3+82	LINEAR FT. 208'
LAND-TEC WELLHEADS:		HAR: _____	TRENCH DEPTH 5' to 7'
IN-LINE SUMPS:		HORIZONTAL: # H-4	PIPE DIA. 6" Solid
QED VAULT KITS:		STATION: 3+82 to 4+03	LINEAR FT. 21'
QED PUMPS:		RISER HEIGHT: _____	TRENCH DEPTH 5'
ENCASEMENTS:		FORCEMAIN: # _____	PIPE DIA. _____
MISC. ITEMS / EXTRA DETAIL: (Described Below) 6 bags bentonite plug on Horizontal #4		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		FORCEMAIN: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
WEATHER & TIME INFORMATION		FORCEMAIN: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		LATERAL: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
DAILY CONDITIONS: clear		RISER HEIGHT: _____	TRENCH DEPTH _____
		FORCEMAIN: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		AIR: # _____	PIPE DIA. _____
START TIME 7:00AM STOP TIME 6:00PM		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____

Today we started with our morning safety meeting and then went over and finished trenching on Horizontal #4. Once we finished trenching on horizontal #4 we put rock in bottom of trench 1ft thick and then installed 6" pipe in trench line and then went and put 21ft of solid pipe with a 90 riser at the end for wellhead. Once all pipe work was complete we shot in pipe at 3% or more grade and then put rock over top of pipe 2ft thick and then rolled fabric over top of rock pack. We then went 5ft into solid pipe and put 6 bags of bentonite for plug. We then hauled dirt and back filled trench line. We set survey risers every 100ft mark. Once back filling was complete we then dressed up deck and wrapped things up for the weekend.




CLIENT REPRESENTATIVE
 5/23/14

DATE

Samuel A. Tolia, LQA


AEGL SUPERINTENDENT

5/23/2014
DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/24/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-111111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HORIZONTAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		HORIZONTAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		AIR: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
START TIME	
STOP TIME	

COMMENTS (Description of Work Order Completed):

Today we didn't work

John M. McKel 5/24/14
CLIENT REPRESENTATIVE DATE

Ismael A. Toldo CQA
NAME & TITLE

John B. G. 5/24/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/25/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
START TIME _____	
STOP TIME _____	

COMMENTS (Description of Work Order Completed):

Today we didnt work.

CLIENT REPRESENTATIVE

DATE

AEGL SUPERINTENDENT

DATE

NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/26/20

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY
VALVES:	
VALVE STEMS:	
LAND-TEC WELLHEADS:	
IN-LINE SUMPS:	
QED VAULT KITS:	
QED PUMPS:	
ENCASEMENTS:	
MISC. ITEMS / EXTRA DETAIL: (Described Below)	
WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
START TIME _____	
STOP TIME _____	

HORIZONTAL: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
HAR: _____	TRENCH DEPTH _____
HORIZONTAL: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
HORIZONTAL: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
AIR: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
FORCEMAIN: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
AIR: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
FORCEMAIN: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
AIR: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____

Today we didn't work do the the holiday.

John M. Tullia 5/26/14
CLIENT REPRESENTATIVE

Brian A. Tullia CBA
NAME & TITLE

[Signature] 5/26/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/27/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HORIZONTAL: # #3	PIPE DIA. 6" Perf
VALVE STEMS:		STATION: 7+60 to 8+52	LINEAR FT. 92'
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH 5'
IN-LINE SUMPS:		HORIZONTAL: # #2	PIPE DIA. 6" Soild
QED VAULT KITS:	4-6"	STATION: 8+52 to 8+72	LINEAR FT. 20'
QED PUMPS:	4	RISER HEIGHT: 8'	TRENCH DEPTH 5'
ENCASEMENTS:		HORIZONTAL: # #2	PIPE DIA. 6" Perf
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION: 7+07 to 7+99	LINEAR FT. 92'
.5 hrs on welding on 6" flange at EW-226		RISER HEIGHT:	TRENCH DEPTH 5'
WEATHER & TIME INFORMATION		HORIZONTAL: # #2	PIPE DIA. 6" Soild
DAILY CONDITIONS:		STATION: 7+99 to 8+00	LINEAR FT. 21'
ear		RISER HEIGHT: 8'	TRENCH DEPTH 5'
START TIME 7:00AM		AIR: #	PIPE DIA.
STOP TIME 5:45 AM		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went over and dug on Horizontal collectors 2 and 3. Once we finished trenching on horizontals we then put stone in bottom of trench lines 1ft thick at 3% grade. Once bottom of trenches were stone we then set in pipes and shot in at 3% or more grade we then install soild pipe with 90 risers at end of horizontal collectors and also put 6bags on each hoizontal for plug. We then started back fillin g trench lines we started by put rock over top of 6" perf pipe 2ft thick and after pipes were covered with stone we then rolled fabric over top of rock pack and then back filled trench lines . We set survey risers every 100ft mark and fittings. Once we finished back filling we then went and started installing pumps down wells EW-226 S/N# 4-12837, EW-102R S/N# 4-12823, EW-18 S/N#4-12839 and EW-107R S/N# 4-12840. Once we finished putting in the 4 pumps we then wrapped things up and left for the day.

Note: At EW-226 we had .5 hrs on welding 6" flange onto well.

CLIENT REPRESENTATIVE

DATE

AEGL SUPERINTENDENT

DATE

NAME & TITLE



DATE: 5/28/2014

PROJECT NAME:	Lorain County Landfill
CLIENT/PROJECT#	202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HORIZONTAL: # _____	PIPE DIA. _____
VALVE STEMS:		STATION: _____	LINEAR FT. _____
LAND-TEC WELLHEADS:		RISER HEIGHT: _____	TRENCH DEPTH _____
IN-LINE SUMPS:		HORIZONTAL: # _____	PIPE DIA. _____
QED VAULT KITS:		STATION: _____	LINEAR FT. _____
QED PUMPS:		RISER HEIGHT: _____	TRENCH DEPTH _____
ENCASEMENTS:		HORIZONTAL: # _____	PIPE DIA. _____
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		HORIZONTAL: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		LATERAL # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		LATERAL: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
WEATHER & TIME INFORMATION		RISER HEIGHT: _____	TRENCH DEPTH _____
		AIR: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		FORCEMAIN: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		DAILY CONDITIONS:	
		cloudy/rain/muddy	
		START TIME 7:00AM	
STOP TIME 12:15PM			

Today we started with our morning safety meeting and then went over and started cleaning out 24" header trench and regrading trench line. We started by removing pipes out of trench line and then removed muck and slop and then back filled trench line . But do to the bad weather coming in we finished back filling trench line and then wrapped things up and left for the day.

Janet A. Tedia 5/28/14
CLIENT REPRESENTATIVE DATE
Janet A Tedia CBA
NAME & TITLE


AEGL SUPERINTENDENT

5/28/2014
DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/29/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: # 24" header	PIPE DIA. 24"
VALVE STEMS:		STATION: 4+80 to 5+70	LINEAR FT. 90'
LAND-TEC WELLHEADS:		HAR: _____	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:		HORIZONTAL: # _____	PIPE DIA. _____
QED VAULT KITS:		STATION: _____	LINEAR FT. _____
QED PUMPS:		RISER HEIGHT: _____	TRENCH DEPTH _____
ENCASEMENTS:		HORIZONTAL: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
MISC. ITEMS / EXTRA DETAIL: (Described Below)		HORIZONTAL: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		HORIZONTAL: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		HEADER: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		FORCEMAIN: # 24" header	PIPE DIA. 8x4 dual
		STATION: 4+80 to 5+70	LINEAR FT. 90'
		RISER HEIGHT: _____	TRENCH DEPTH 3' to 5'
		AIR: # 24" header	PIPE DIA. 2"
		STATION: 4+80 to 5+70	LINEAR FT. 90'
		RISER HEIGHT: _____	TRENCH DEPTH 3' to 5'

WEATHER & TIME INFORMATION

DAILY CONDITIONS:

Clear

START TIME 7:00AM

STOP TIME 7:15PM

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went over and redug trench for 24" header do to the regrade issues. Once trenching was dug and bottom of trench was sand bedded we then installed 24" header in trench and shot in pipe at 1% or more grade so we then installed air and forcemain pipes in same trench and then backfilled trench line by putting sand half way up on the 24" pipe and then put 1ft of clay on top of pipes. While we were backfilling we also dug down 20ft from where we stopped at for sump. Once we had sump hole completely dug we then brought over sump and dropped in hole and bolted up to 24" flange. Once bolt up was complete we then back filled around bottom of sump. Once we had backfilling complete we caution taped off sump hole and wrapped things up and left for the day.

CLIENT REPRESENTATIVE

DATE

AEGL SUPERINTENDENT

DATE

NAME & TITLE



AEGL DAILY DIARY

DATE: 5/30/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HORIZONTAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		HORIZONTAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
MISC. ITEMS / EXTRA DETAIL: (Described Below)		FORCEMAIN: #	PIPE DIA.
6 bags bentonite plug on Horizontal #4		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
START TIME 7:00AM	
STOP TIME 6:15PM	

Today we started with our morning safety meeting and then went over and dug up 12" tie in point by old high point. Once tie in was ready we tried starting our 18" machine and it wouldn't start do to the fact the starter went out of it so we went up and pulled blind out and made tie in on the 24" header. We then went and dug up 2" air and 4" forcemain and made tie in to existing lines. We then went over and prepped up pipe for tie in tomorrow and dug up around sump 21 and getting ready for removal. We then hauled dirt and put liner over top of tie in point and then wrapped things up and left for the day.

CLIENT REPRESENTATIVE

DATE

NAME & TITLE

AEGL SUPERINTENDENT

DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 5/31/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: # Northslope	PIPE DIA. 12"
VALVE STEMS:		STATION: 6+10 to 6+30	LINEAR FT. 20'
LAND-TEC WELLHEADS:		HAR: _____	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:		HORIZONTAL: # _____	PIPE DIA. _____
QED VAULT KITS:		STATION: _____	LINEAR FT. _____
QED PUMPS:		RISER HEIGHT: _____	TRENCH DEPTH _____
ENCASEMENTS:		AIR: # _____	PIPE DIA. _____
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		FORCEMAIN: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		HEADER: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		FORCEMAIN: # 12" header	PIPE DIA. 4"
		STATION: 6+10 to 6+30	LINEAR FT. 20'
		RISER HEIGHT: _____	TRENCH DEPTH 3' to 5'
		AIR: # 12" header	PIPE DIA. 2"
		STATION: 6+10 to 6+30	LINEAR FT. 20'
		RISER HEIGHT: _____	TRENCH DEPTH 3' to 5'

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
Clear	
START TIME	7:00AM
STOP TIME	6:00PM

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went over and got ready for 12" header tie in. Once we got the ok from SCS we then cut out 18" riser and 12" valve out. We then abandon the old 18" header with a 18" flange with blind. We then filled in hole and then intalled new 12" pipe in trench and made hard weld for tie in point. Once tie in was complete we then tied in the 2" air and 4" forcemain to existing lines. While we were doing tie in we were also digging up old sump 21 for removal. Once pipes were exposed we cut pipes and pulled out old sump. We then got with Chris and he said to abandon all the 18" pipe up by the 24" header. So we then went up and dug up pipe and then abandon 18" header with a 18" flange with blind. Once all pipe was tied in we then got with SCS and gave them there system back to them. We then started hauling dirt and back filling all trenches. However we got with Rick and he wanted sump hole left open and he was going to fill it with trash. Once all back filling was complete and we removed the pump out of old sump and took to boneyard we wrapped things up and left for the day.

CLIENT REPRESENTATIVE

DATE

NAME & TITLE

AEGL SUPERINTENDENT

DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/1/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
START TIME	
STOP TIME	

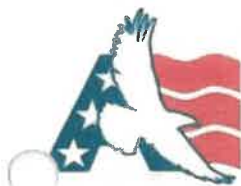
COMMENTS (Description of Work Order Completed):

Today we didnt work.

John A. Todia 4/11/14
CLIENT REPRESENTATIVE DATE

John A. Todia CPA
NAME & TITLE

[Signature] 6/1/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/2/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY
VALVES:	
VALVE STEMS:	
LAND-TEC WELLHEADS:	3
IN-LINE SUMPS:	
QED VAULT KITS:	4-6"
QED PUMPS:	4
ENCASEMENTS:	
MISC. ITEMS / EXTRA DETAIL: (Described Below)	
WEATHER & TIME INFORMATION	
DAILY CONDITIONS: cloudy/rain	
START TIME 7:00AM	
STOP TIME 6:15PM	

HORIZONTAL: #	PIPE DIA.
STATION:	LINEAR FT.
HAR:	TRENCH DEPTH
HORIZONTAL: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
HORIZONTAL: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
AIR: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
FORCEMAIN: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
AIR: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
FORCEMAIN: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
AIR: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH

Today we started with our morning safety meeting and then went over and removed liner and made 6" tie ins for laterals coming from Ew-306R and EW-307R. Once we got the ok from SCS we cut into header tees and tied in 6" laterals. Once both laterals were tie in we went around and re hooked up wellheads from existing laterals to new laterals. We also put 3 new landtec wellheads on Horizontal #2, #3 and #4. Once we had all wells back on line we gave the plant back there system. We then went around and pulled survey risers out and then went and put in 4 more pumps. We put pumps in at EW-306R S/N# 4-12825, EW-307R S/N# 4-12818, 314R S/N# 4-12843 and EW-313R S/N# 4-12814. Once we had pumps built and set in wells and working we wrapped things up and left for the day.

Note: we cut up old sump 21 in 3 sections like the site wanted and took them to the active face.

John M. Loria 6/2/14
CLIENT REPRESENTATIVE
James A. Todia CNA
NAME & TITLE

[Signature]
AEGL SUPERINTENDENT
DATE 6/2/2014



**American
Environmental
Group Ltd.**

AEGL DAILY DIARY

DATE: 6/3/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HORIZONTAL: # H-1	PIPE DIA. 6" Perf
VALVE STEMS:		STATION: 6+80 to 8+01	LINEAR FT. 121'
LAND-TEC WELLHEADS:	1-2" for H-1	HAR:	TRENCH DEPTH 5'
IN-LINE SUMPS:		HORIZONTAL: # H-1	PIPE DIA. 6" Soild
QED VAULT KITS:	1-6"	STATION: 8+01 to 8+21	LINEAR FT. 20'
QED PUMPS:	1	RISER HEIGHT: 8'	TRENCH DEPTH 5'
ENCASEMENTS:		LATERAL: # EW-310	PIPE DIA. 6"
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION: 0+00 to 0+28	LINEAR FT. 28'
		RISER HEIGHT: 7'	TRENCH DEPTH 3' to 5'
		LATERAL: # EW-311	PIPE DIA. 6"
		STATION: 0+00 to 0+25	LINEAR FT. 25'
		RISER HEIGHT: 7'	TRENCH DEPTH 3' to 5'
WEATHER & TIME INFORMATION		AIR: #	PIPE DIA.
DAILY CONDITIONS: Clear		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went over and dug on both 6" laterals for down slope wells at EW-310 and EW-311. Once trenching was complete we then cut into wells and installed 6" tees and ran pipe up to 12" header and put 90 risers for wellheads. Once we shoot in pipe and it was good we back filled trench lines. We then went over and installed a pump into new 24" header sump 27ft and S/N#4-12841. While we were putting in pump we finished trenching on 6" horizontal #1. Once trenching was complete we rocked bottom of trench line and then put pipe in trench and shot in pipe at 3% grade. Once we knew pipe was good we then put rock 2ft over top of perf pipe. We then went and started 6" soild pipe at 8+01 and put 90 riser at 12" header 8+21. We then started back filling trench line. Once we had trench back filled we pulled 24" pipe down to header and did clean up work. We then also put wellhead on H-1. Once we had pipe down the hill we wrapped things up and left for the day

John M. ... 6/3/14
CLIENT REPRESENTATIVE DATE

John A. Todia CQA
NAME & TITLE

[Signature] 6/3/2014
AEGL SUPERINTENDENT DATE



DATE: 6/4/2014

PROJECT NAME:	<u>Lorain County Landfill</u>
CLIENT/PROJECT#	202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HORIZONTAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		RISER HEIGHT:	TRENCH DEPTH
IN-LINE SUMPS:		HORIZONTAL:#	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		HORIZONTAL: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HORIZONTAL:#	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL:#	PIPE DIA.
		STATION:	LINEAR FT.
WEATHER & TIME INFORMATION		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN:#	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
DAILY CONDITIONS: cloudy/rain			
START TIME 7:00AM			
STOP TIME 5:30PM			

Today we started with our morning safety meeting and then went over and started fabbing up 24" header and fittings. However the site got with us and found that there was a leactated breckout on the north slope so we stopped what we were doing and went over to the air and forcemain isolation valves on the noth slope and dug down to tops of forcemain pipe and found that a 4" buttcap that had a test rig hole in it was fused to the end of the line so we then cut butt cap off and replaced it with a new 4" buttcap. Once we had repair made we then back filled hole and wrapped things up for the day.




CLIENT REPRESENTATIVE
 DATE

NAME & TITLE
Janet A. Todor CMA


AEGL SUPERINTENDENT

6/4/2014
DATE



DATE: 6/5/2014

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: # _____	PIPE DIA. _____
VALVE STEMS:		STATION: _____	LINEAR FT. _____
LAND-TEC WELLHEADS:		HAR: _____	TRENCH DEPTH _____
IN-LINE SUMPS:		HORIZONTAL: # _____	PIPE DIA. _____
OED VAULT KITS:		STATION: _____	LINEAR FT. _____
OED PUMPS:		RISER HEIGHT: _____	TRENCH DEPTH _____
ENCASEMENTS:		HORIZONTAL: # _____	PIPE DIA. _____
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		HORIZONTAL: # _____	PIPE DIA. _____
WEATHER & TIME INFORMATION		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		HORIZONTAL: # _____	PIPE DIA. _____
DAILY CONDITIONS:		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		FORCEMAIN: # _____	PIPE DIA. _____
START TIME _____ 7:00AM _____		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		AIR: # _____	PIPE DIA. _____
STOP TIME _____ 6:15PM _____		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		AIR: # _____	PIPE DIA. _____

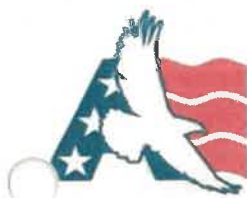
Today we started with our morning safety meeting and then went over and started trenching on 24" header pipe. While we were trenching we fabbed up 24" pipe and fitting. Do to the deep trenching Chris agree to paying us for having to haul dirt out so haul road could stay open. Once we finishe d trenching for the day we put sand in bottom of trench at 1% grade. we then ran out of time for the day so we caution taped trench off and wrapped things up for the day.

Note: We had 5.5hrs with 1 truck hauling clay out and staging it up on the hill

 6/15/14
 CLIENT REPRESENTATIVE DATE
 CBA
 NAME & TITLE


AEGL SUPERINTENDENT

6/5/2014
DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/6/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: # 24" Header north side sum	PIPE DIA. 24"
VALVE STEMS:		STATION: 0+00 to 3+40	LINEAR FT. 340'
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH 10' to 13'
IN-LINE SUMPS:		HORIZONTAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:			
MISC. ITEMS / EXTRA DETAIL: (Described Below)		FORCEMAIN: # 24" Header north side sum	PIPE DIA. 8x4
		STATION: 0+00 to 3+40	LINEAR FT. 340'
		RISER HEIGHT:	TRENCH DEPTH 10' to 13'
		AIR: # 24" Header north side sum	PIPE DIA. 2"
		STATION: 0+00 to 3+40	LINEAR FT. 340'
		RISER HEIGHT:	TRENCH DEPTH 10' to 13'
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
WEATHER & TIME INFORMATION			
DAILY CONDITIONS:			
Clear			
START TIME 7:00AM			
STOP TIME 6:30PM			

Today we started with our morning safety meeting and then went over and finished trenching on 24" header. Once we had all 24" pipe ready and trenching was complete and bottom of trench line was sand bed. We then installed 24" pipe in trench and bolted up to blind on sump for air testing. Once header was in trench we then shot in pipe at 1% grade it was all good so we then put 2" air and 8x4 dual contain forcemain insame trench line. Once all pipes were in trench line we then put sand half way up the pipe we put first lift on top of pipe. Once we had first lift on we wrapped things up and left for the day.

Note : We had 8hrs in using 1 truck to hual clay out and put on top of hill

Justin Muehler 6/6/14
CLIENT REPRESENTATIVE DATE

[Signature] 6/6/2014
AEGL SUPERINTENDENT DATE

Isnot A Tedia CAA
NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/7/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		HORIZONTAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		AIR: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
WEATHER & TIME INFORMATION		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
DAILY CONDITIONS:		FORCEMAIN: #	PIPE DIA.
clear		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
START TIME 7:00AM		AIR: #	PIPE DIA.
STOP TIME 2:00PM		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went over to the 24" header and put on air test at 10psi for 4 hours. Janet the QC checked and passed air test. We then went and put 6" tee risers at both cleanout risers by the 24" header for future wellheads. While we were fusing in tees we went over and dressed up and finished back filling around 2" and 4" isolation valves. We then cut and capped 2" air and 8x4 dual contain forcemain in the 24" header where future 24" flange with blind. We then went down and pulled pan blank out of sump and rebolted up to sump. Once we had pipe work complete we then put lift on top of 24" pipe. Once we had lift in we wrapped things up and left for the day.

Mark Tolia 4/7/14
CLIENT REPRESENTATIVE DATE
Barry A Tolia CQA
NAME & TITLE

[Signature] 6/7/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/8/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION
DAILY CONDITIONS:
START TIME
STOP TIME

COMMENTS (Description of Work Order Completed):

Today we didnt work.

James A. Todia 6/8/14
CLIENT REPRESENTATIVE DATE
James A. Todia CQA
NAME & TITLE

[Signature] 6/8/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/9/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY
VALVES:	
VALVE STEMS:	
LAND-TEC WELLHEADS:	
IN-LINE SUMPS:	
QED VAULT KITS:	
QED PUMPS:	
ENCASEMENTS:	
MISC. ITEMS / EXTRA DETAIL: (Described Below)	
WEATHER & TIME INFORMATION DAILY CONDITIONS: cloudy/muddy START TIME 7:00AM STOP TIME 1:45PM	

HORIZONTAL: #	PIPE DIA.
STATION:	LINEAR FT.
HAR:	TRENCH DEPTH
HORIZONTAL: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
HORIZONTAL: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
AIR: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
FORCEMAIN: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
AIR: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
FORCEMAIN: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
AIR: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH

Today we started with our morning safety meeting and then went over and checked the damage from the rain on Sunday. Do to all the rain it was too muddy to do compaction on the 24" header. We however moved dirt around to help it dry faster. We then went up and set isolation vives up and put existing 12" valve stem on new 12" valve. Once we finished moving dirt we wrapped things up and left for the day.

John M. Loria 6/9/14
CLIENT REPRESENTATIVE
James A. Torkio CQA
NAME & TITLE

James A. Torkio
AEGL SUPERINTENDENT
DATE 6/9/2014



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/10/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HORIZONTAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		HORIZONTAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
Clear	
START TIME	7:00AM
STOP TIME	6:15PM

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went over and started compacting 24" header in 1ft lifts. After every lift was put in we had gary test compaction in 5 different locations they all passed with no problem. We had 3 different lifts tested to day. We then had to shut down do to the time and wrapped things up and left for the day.

NOTE: We hauled cly back down for 5hrs today with 2 trucks.

Joe M. M. 6/10/14
CLIENT REPRESENTATIVE DATE

Frank A. T. CQA
NAME & TITLE

Joe M. M. 6/10/2014
AEGL SUPERINTENDENT DATE



DATE: 6/11/2014

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HORIZONTAL: # _____	PIPE DIA. _____
VALVE STEMS:		STATION: _____	LINEAR FT. _____
LAND-TEC WELLHEADS:		RISER HEIGHT: _____	TRENCH DEPTH _____
IN-LINE SUMPS:		HORIZONTAL:# _____	PIPE DIA. _____
QED VAULT KITS:		STATION: _____	LINEAR FT. _____
QED PUMPS:		RISER HEIGHT: _____	TRENCH DEPTH _____
ENCASEMENTS:		HORIZONTAL: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
MISC. ITEMS / EXTRA DETAIL: (Described Below)		HORIZONTAL:# _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		LATERAL # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		LATERAL:# _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		AIR: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		FORCEMAIN:# _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		_____	_____
		_____	_____

Today we started with our morning safety meeting and then went over and started compacting 24" header line again. We did two lifts today and both lifts passed by Gary. We then went on the south side of the sump and started getting ready for compaction but dirt was to wet and we dug up dirt and thur on the side of the trench to dry out. We then wrapped things up and left for the day.

NOTE: We used both trucks to haul dirt to header line for 7hrs.


 6/11/14
 CLIENT REPRESENTATIVE DATE
 Brent A Tolio CRA
 NAME & TITLE

 6/11/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/12/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		HORIZONTAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		HORIZONTAL: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HORIZONTAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HORIZONTAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
WEATHER & TIME INFORMATION		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
DAILY CONDITIONS:		FORCEMAIN: #	PIPE DIA.
cloudy		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
START TIME 7:00AM		AIR: #	PIPE DIA.
STOP TIME 5:30PM		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went over and finished compacting 24" header on the south side of the sump. We did 2 lifts and both lifts passed so we started dressing up hill side. Once we finished for the day we wrapped things up and left for the day.

[Signature] 6/12/14
CLIENT REPRESENTATIVE DATE
[Signature] CQA
NAME & TITLE

[Signature] 6/12/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/13/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY	HEADER: #	PIPE DIA.
VALVES:		STATION:	LINEAR FT.
VALVE STEMS:		HAR:	TRENCH DEPTH
LAND-TEC WELLHEADS:			
IN-LINE SUMPS:		HORIZONTAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:			
MISC. ITEMS / EXTRA DETAIL: (Described Below)		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
WEATHER & TIME INFORMATION		LATERAL: #	PIPE DIA.
DAILY CONDITIONS:		STATION:	LINEAR FT.
cloudy/rain		RISER HEIGHT:	TRENCH DEPTH
START TIME 7:00AM		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
STOP TIME 5:45PM		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

Today we started with our morning safety meeting and then went over and did 4" manafold at the 2-18" 1-6" and 1-3" cleanout risers. We used 3-4" tees 1-4" 90 elbow 1-3" tee 1-6" tee 2-18x4 saddles and 8-4" flanges to make manafold for clean out risers. We then did more dress up work on 24" header line. We then went up top and built 6" well for EW-96R and then took well over where drilling will begin tomorrow we also built benches for Ew-96R. Once we finished getting everything over to new well we wrapped things up and left for the day.

CLIENT REPRESENTATIVE

DATE

James A. Todia CQA
NAME & TITLE

AEGL SUPERINTENDENT

DATE

6/13/2014



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/14/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		HORIZONTAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		AIR: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS: Clear	
START TIME	7:00AM
STOP TIME	2:00PM

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went over and dug up Horizontal #3 where the sit ripped out at the request of Chris Jaquet. Once we dug up both ends of pipe where it was damaged we then trenched 90ft around 4ft deep and put rock on grade at 3% or more grade. Once pie was in trench line and fused back together we shot in pipe and then put 2ft of stone over top of 6" perf pipe. We then back filled trench line and went up top and fused up new wells and pulled pipes in place for mondays work area. We then wrapped things up and left for the day.

NOTE: We are to bill 4hrs at T&M Rate for 1 cat 320 hoe, 1-725 cat truck and 4 guys to make repairs on Horizontal #3 and we used 1 truck of rock.

CLIENT REPRESENTATIVE

DATE

AEGL SUPERINTENDENT

DATE

NAME & TITLE



AEGL DAILY DIARY

DATE: 6/15/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
OED VAULT KITS:		STATION:	LINEAR FT.
OED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION
DAILY CONDITIONS:
START TIME
STOP TIME

COMMENTS (Description of Work Order Completed):

Today we didnt work.

John A. Tolia 6/15/14
CLIENT REPRESENTATIVE DATE
John A. Tolia CBA
NAME & TITLE

[Signature] 6/15/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/16/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY
VALVES:	
VALVE STEMS:	
LAND-TEC WELLHEADS:	
IN-LINE SUMPS:	
QED VAULT KITS:	
QED PUMPS:	
ENCASEMENTS:	
MISC. ITEMS / EXTRA DETAIL: (Described Below)	
WEATHER & TIME INFORMATION	
DAILY CONDITIONS: Clear/rain	
START TIME 7:00AM	
STOP TIME 5:15PM	

FORCEMAIN: # To EW-128R2	PIPE DIA. 4x2 dual
STATION: 0+00 to 2+51	LINEAR FT. 251'
HAR: 5'	TRENCH DEPTH 3'
FORCEMAIN: # To EW-63R2	PIPE DIA. 2"
STATION: 0+00 to 1+70	LINEAR FT. 170'
RISER HEIGHT:	TRENCH DEPTH 3'
FORCEMAIN: # Ew-13R2	PIPE DIA. 4x2 dual
STATION: 0+00 to 1+79	LINEAR FT. 179'
RISER HEIGHT: 5'	TRENCH DEPTH 3'
AIR: # EW-13R2	PIPE DIA. 2"
STATION: 0+00 to 1+79	LINEAR FT. 179'
RISER HEIGHT: 5'	TRENCH DEPTH 3'
FORCEMAIN: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
AIR: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
FORCEMAIN: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH
AIR: #	PIPE DIA.
STATION:	LINEAR FT.
RISER HEIGHT:	TRENCH DEPTH

Today we started with our morning safety meeting and then went up on the south side of the landfill and started trenching on top of liner trenching laterals going to EW-13R2 and EW-128R2. We started by putting pipe in trench lines and worked backwards to tie in point we put 4x2 dual contain forcemain with end seal at 0+00 and installed a 4x2 tee riser 5ft at 0+33 and ran pipe down to tie in point and installed a 4x2 tee going to EW-13R2. We then went back up and fused 2" SDR 11 forcemain to 4x2 end seal where forcemain came out of liner. We then went back down and installed 2" air and 4x2 dual contain forcemain in trench line coming from EW-13R2. Once all pipe was in trench lines and marked out we started hauling dirt and back filling trench lines. We set survey risers every 50ft mark and fittings and also rolled caution tape down trench lines. Once we had back filling complete we wrapped things up and left for the day.

John M. Hickey 6/16/14
CLIENT REPRESENTATIVE
John A. Zodia CQA
NAME & TITLE

[Signature]
AEGL SUPERINTENDENT
6/16/2014
DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/17/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		FORCEMAIN: # EW-58R2	PIPE DIA. 2"
VALVE STEMS:		STATION: 0+00 to 2+00	LINEAR FT. 200'
LAND-TEC WELLHEADS:		HAR: 5'	TRENCH DEPTH 3'
IN-LINE SUMPS:		FORCEMAIN: # EW-63R2	PIPE DIA. 2"
QED VAULT KITS:		STATION: 1+70 to 3+20	LINEAR FT. 150'
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH 3'
ENCASEMENTS:			
MISC. ITEMS / EXTRA DETAIL: (Described Below)		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
WEATHER & TIME INFORMATION		AIR: #	PIPE DIA.
DAILY CONDITIONS:		STATION:	LINEAR FT.
clear		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
START TIME 7:00AM		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
STOP TIME 5:00PM		RISER HEIGHT:	TRENCH DEPTH

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went up on the hill and trenched on forcemain laterals from EW-58R2 and EW-63R2. Once we stop trenching do to the high winds we started by putting 2" forcemain riser at EW-63R2 at 1+97 we then installed a tee pointing to EW-58R2. We then ran 2" Forcemain to EW-58R2. Once all pipe was fused together we started hauling dirt and back fill trench lines. We set survey risers every 50ft and rolled caution tape down trench lines. Once back filling was complete we put air test on all laterals for the air and forcemain. We put air test on outter forcemain line at 60psi the inner 2" at 50psi and the 2" air line at EW-13R2 at 100psi for for hours. Janet the QC came and checked air test and passed all testing. We also cut and capped existing forcemain risers at EW-63R2 and EW-58R2 with 2" buttcaps. We then went and exposed around New wells EW-96R, EW-118R, EW-118S, EW-116R2 and EW-116S so we can make liner repairs. Once we had everything exposed we then wrapped things up and left for the day.

Janet A. Todia 6/17/14
CLIENT REPRESENTATIVE DATE
Janet A Todia CQA
NAME & TITLE

[Signature] 6/17/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/18/2014

PROJECT NAME: Lorain County Landfill

CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		AIR: # EW-63R2	PIPE DIA. 2"
VALVE STEMS:		STATION: 0+00 TO 1+25	LINEAR FT. 125'
LAND-TEC WELLHEADS:		RISER HEIGHT: 6'	TRENCH DEPTH 3'
IN-LINE SUMPS:		FORCEMAIN: # EW-63R2	PIPE DIA. 2"
QED VAULT KITS:		STATION: 0+00 TO 1+25	LINEAR FT. 125'
QED PUMPS:		RISER HEIGHT: 6'	TRENCH DEPTH 3'
ENCASEMENTS:		AIR: # EW-170 and EW-149	PIPE DIA. 2"
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION: 0+00 to 3+70	LINEAR FT. 370'
		RISER HEIGHT: 2-5'	TRENCH DEPTH 3'
		HORIZONTAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
WEATHER & TIME INFORMATION			
DAILY CONDITIONS:			
clear			
START TIME 7:00AM			
STOP TIME 5:00PM			

Today we started with our morning safety meeting and then went up on the hill and started trenching on 2" air and forcemain lines at EW-63R2 and EW-170 and EW-149. While we were trenching on laterals we went over and tie in 2" air and 4x2 forcemain at isolation valves. We put tees in existing isolation valves above liner and tie in lines to port side of tees. We then went over and started putting in 2" air and 2" forcemain lines at EW-63R2. We started by putting 90 risers at EW-63R2 and then ran it down and tied in forcemain to existing riser at EW-170 we then installed a 2" 90 riser for air line at EW-170 at 0+00 and then put 2" tee at 0+01 pointing to EW-63R2 and tie in lateral to tee. We then went down and installed a 2" tee riser at EW-149 at 1+81. We then went down to tie in point for 2" air line and tie in to existing 2" air with 2" tee Once tie was complete we started hauling dirt and back filled trench lines. We set survey risers every 50ft mark and fittings and also rolled caution tape down trench lines. Once all back filling was done we wrapped things up and left for the day.

Note we put all pipes on air test the air line was 100psi and the forcemain was 50psi for 4hrs and Janet the QC checked and passed all air test.

CLIENT REPRESENTATIVE

DATE

AEGL SUPERINTENDENT

6/18/2014

DATE

NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/19/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		HORIZONTAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		HORIZONTAL: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HORIZONTAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HORIZONTAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
Rain	
START TIME	
STOP TIME	

COMMENTS (Description of Work Order Completed):

Today we didnt work do to the weather.

John M. Liska 6/19/14
CLIENT REPRESENTATIVE DATE
John A. Todia CQA
NAME & TITLE

[Signature] 6/19/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/20/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: # EW-158R	PIPE DIA. 6"
VALVE STEMS:		STATION: 0+00 to 0+89	LINEAR FT. 89'
LAND-TEC WELLHEADS:		HAR: _____	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:		HORIZONTAL: # _____	PIPE DIA. _____
QED VAULT KITS:		STATION: _____	LINEAR FT. _____
QED PUMPS:		RISER HEIGHT: _____	TRENCH DEPTH _____
ENCASEMENTS:		FORCEMAIN: # _____	PIPE DIA. _____
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		AIR: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
WEATHER & TIME INFORMATION		LATERAL: # _____	PIPE DIA. _____
DAILY CONDITIONS: cloudy/rain		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
		FORCEMAIN: # _____	PIPE DIA. _____
		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____
START TIME 7:00AM		AIR: # _____	PIPE DIA. _____
STOP TIME 1:30PM		STATION: _____	LINEAR FT. _____
		RISER HEIGHT: _____	TRENCH DEPTH _____

Today we started with our morning safety meeting and then went up on the hill and exposing tie in point to EW-158R. Once we dug down we had leachaid coming up around risers. So we dug down more on risers to see if we could find leak at. While we were digging up trying to find leak we started trenching on 6" lateral at EW-158R. However we had to stop and cut pipe do to the rain coming in for the day. We then installed pipe in trench line shot in pipe at 3% grade and back filled trench line. We set survey riser at 50ft mark and rolled caution tape down trench line. We then had to stop digging down on risers and clean up trash and then rolled liner over top of hole and caution taped hole off. Once hole was covered we sent most of the guys out and a couple of guys stayed and help set in new well drillers did today. Once well was complete we wrapped things up and left for the day.

NOTE: We spent 6hrs on trying to find forcemain leak

CLIENT REPRESENTATIVE

DATE

AEGL SUPERINTENDENT

DATE

NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/21/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		HORIZONTAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:			
MISC. ITEMS / EXTRA DETAIL: (Described Below)		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
WEATHER & TIME INFORMATION		HEADER: #	PIPE DIA.
DAILY CONDITIONS:		STATION:	LINEAR FT.
rain		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
START TIME		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
STOP TIME		RISER HEIGHT:	TRENCH DEPTH

COMMENTS (Description of Work Order Completed):

Today we didnt work do to rain and too muddy.

John Kolia 6/21/14
CLIENT REPRESENTATIVE DATE
Wm A Toles CQA
NAME & TITLE

[Signature] 6/21/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/22/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
MISC. ITEMS / EXTRA DETAIL: (Described Below)		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
START TIME _____	
STOP TIME _____	

COMMENTS (Description of Work Order Completed):

Today we didnt work.

CLIENT REPRESENTATIVE

DATE

AEGL SUPERINTENDENT

DATE

NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/23/2014

PROJECT NAME: Lorain County Landfill

CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS: clear	
START TIME	7:00AM
STOP TIME	6:15PM

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went up on top and removed liner and dug down EW-158R to try finding forcemain leak. While we were digging we went to new wells EW-96R, EW-118R and EW-116R2 and repaired liner and made boots. We spent a total of 6hrs on boots. We then went up and found forcemain leak and made repair. We spent a total of 11hrs on digging up broken pipe and repairing also back filling hole. Once we had hole completely filled in we wrapped things up and left for the day.

CLIENT REPRESENTATIVE

DATE

AEGL SUPERINTENDENT

6/23/2014
DATE

NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/24/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		FORCEMAIN: # EW-153R2	PIPE DIA. 2"
VALVE STEMS:		STATION: 0+00 to 1+88	LINEAR FT. 188'
LAND-TEC WELLHEADS:		HAR: 5'	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:		AIR: # EW-153R2	PIPE DIA. 2"
QED VAULT KITS:		STATION: 0+00 to 1+88	LINEAR FT. 188'
QED PUMPS:		RISER HEIGHT: 5'	TRENCH DEPTH 3' to 5'
ENCASEMENTS:		LATERAL: # EW-158R	PIPE DIA. 6"
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION: 0+89 to 1+22	LINEAR FT. 33'
		RISER HEIGHT:	TRENCH DEPTH 3' to 5'
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
WEATHER & TIME INFORMATION		AIR: #	PIPE DIA.
DAILY CONDITIONS:		STATION:	LINEAR FT.
Clear/rain in afternoon		RISER HEIGHT:	TRENCH DEPTH
START TIME 7:00AM		FORCEMAIN: #	PIPE DIA.
STOP TIME 4:00PM		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went up and finished trenching on 6" lateral at EW-158R. Once lateral was complete we then put 6" tee into existing vacuum riser at EW-158R and put 6" 90 riser at EW-154R2. We then shot pipe at 3% or more grade and back filled trench line. We then dug down EW-154R2 so we can tie in 2" air and 2" forcemain going to EW-154R2. We then abandon existing 6" riser below grade with 6" buttcap at EW-153R2. We then trenched air and forcemain line going to EW-153R2. Once we had trenching done we then put both pipes in trench line and tie into existing risers at EW-154R2 with 2" tees. Air test was done on both pipes the forcemain was at 50psi and the air was 100 psi for 4hrs. Janet the QC came and checked air testing and passed both pipes. Once tie in were complete we then set survey risers every 50ft and fitting also rolled caution tape down trench line. Once back filling was complete we then wrapped things up and left for the day do to the down pour of rain.

CLIENT REPRESENTATIVE

DATE

AEGL SUPERINTENDENT

DATE

NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT# 202-14-111

DATE: 6/25/2014

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		AIR: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		RISER HEIGHT:	TRENCH DEPTH
IN-LINE SUMPS:		FORCEMAIN:#	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		AIR: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HORIZONTAL:#	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL:#	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN:#	PIPE DIA.
WEATHER & TIME INFORMATION		STATION:	LINEAR FT.
DAILY CONDITIONS:		RISER HEIGHT:	TRENCH DEPTH
rain/muddy		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
START TIME _____		FORCEMAIN:#	PIPE DIA.
STOP TIME _____		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

Today we didnt work but however Scott from beaver called and the site needed some welds made to run pumps do to the one they had got struck by lighting last nite. So Dean and 1 guy went in and made fuses and stuck around to make sure they didnt need any more done once they had pump running we wrapped up and left for the day.

NOTE: we had 1hr in making fuse and is to be billed to Rick the landfill manager and not Chris.

Paul Korka 6/25/14
CLIENT REPRESENTATIVE DATE
Erin A Tadio CQA
NAME & TITLE

[Signature] 6/25/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/26/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		FORCEMAIN: # EW-55	PIPE DIA. 2"
QED VAULT KITS:		STATION: 0+00 to 0+59	LINEAR FT. 59'
QED PUMPS:		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
ENCASEMENTS:		AIR: # EW-55	PIPE DIA. 2"
		STATION: 0+00 to 0+59	LINEAR FT. 59'
		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
MISC. ITEMS / EXTRA DETAIL: (Described Below)		FORCEMAIN: # EW-321	PIPE DIA. 2"
40ft of 12" CMP		STATION: 0+00 to 0+98	LINEAR FT. 98'
		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
		AIR: # EW-321	PIPE DIA. 2"
		STATION: 0+00 to 0+98	LINEAR FT. 98'
		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
		FORCEMAIN: # EW-41R	PIPE DIA. 2"
		STATION: 0+00 to 1+50	LINEAR FT. 150'
		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
		AIR: # EW-41R	PIPE DIA. 2"
		STATION: 0+00 to 1+50	LINEAR FT. 150'
		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'

WEATHER & TIME INFORMATION
DAILY CONDITIONS: clear
START TIME 7:00AM
STOP TIME 6:15PM

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went over and trenched 2" air and forcemain at EW-41R, EW-55R and EW-321. Once we had all three trenches dug we installed pipes in trench lines. All pipes were air tested at 2" air 100psi and 2" forcemain 50psi for 4hrs. Janet the QC checked air testings and passed all testing. We then pinched off pipes and made tie ins to the air and forcemain in 3 different places with 2" air tees and 4" tee reduced to 2" for the forcemain. We also went thru road at EW-321 and we put in 40ft of 12" CMP and feed pipes thru CMP. Once all pipes were tie in and in trench lines we hauled dirt and back filled trench lines. After all trench lines were back filled we wrapped things up and left for the day.

Janet A. Todd 6/26/14
CLIENT REPRESENTATIVE DATE
Janet A. Todd CUA
NAME & TITLE

John D. B. [Signature] 6/26/2014
AEGL SUPERINTENDENT DATE



**American
Environmental
Group Ltd.**

AEGL DAILY DIARY

DATE: 6/27/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		AIR: # EW-324	PIPE DIA. 2"
VALVE STEMS:		STATION: 0+00 to 2+80	LINEAR FT. 280'
LAND-TEC WELLHEADS:		HAR: 7'	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:		FORCEMAIN: # EW-324	PIPE DIA. 2"
QED VAULT KITS:		STATION: 0+00 to 2+80	LINEAR FT. 280'
QED PUMPS:		RISER HEIGHT: 7'	TRENCH DEPTH 3' to 5'
ENCASEMENTS:		FORCEMAIN: # EW-323R	PIPE DIA. 2"
MISC. ITEMS / EXTRA DETAIL: (Described Below) 40ft of 12" CMP road crossing		STATION: 0+00 to 2+23	LINEAR FT. 223'
		RISER HEIGHT: 7'	TRENCH DEPTH 3' to 5'
		AIR: # EW-323R	PIPE DIA. 2"
		STATION: 0+00 to 2+23	LINEAR FT. 223'
		RISER HEIGHT: 7'	TRENCH DEPTH 3' to 5'
WEATHER & TIME INFORMATION		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
DAILY CONDITIONS: clear		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
START TIME <u>7:00AM</u>		AIR: #	PIPE DIA.
STOP TIME <u>6:00PM</u>		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

Today we started with our morning safety meeting and then went and started trenching on Air and formain going to EW-324 and lateral going to EW-323R. We started by digging trench for EW-324 on the way up to EW-324 we installed tee risers for EW-318 and then stopped before we got to the road crossing. WE then went back down and started digging going up to EW-323R. on the way up we put tee risers at EW-317 and EW-315R. We then dug cross road once we had road open we then installed 40ft of 12" CMP and feed both air line and forcemain line. Once all pipes were in trench lines we then started hualing dirt and back filling. We set survey risers every 50ft mark and fittings. Also the surveyours showed up and shot all riser pipes today. Once back filling was complete we wrapped things up and left for the day.

John M. Loria 6/27/14
CLIENT REPRESENTATIVE DATE
John A. Todia CQA
NAME & TITLE

[Signature] 6/27/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/28/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		HORIZONTAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:			
MISC. ITEMS / EXTRA DETAIL: (Described Below)		AIR: # EW-323R	PIPE DIA. 2"
40ft of 12" CMP Road crossing		STATION: 2+23 to 3+75	LINEAR FT. 152'
		RISER HEIGHT: 7'	TRENCH DEPTH 3' to 5'
		FORCEMAIN: # EW-323R	PIPE DIA. 2"
		STATION: 2+23 to 3+75	LINEAR FT. 152'
		RISER HEIGHT: 7'	TRENCH DEPTH 3' to 5'
WEATHER & TIME INFORMATION		HEADER: #	PIPE DIA.
DAILY CONDITIONS:		STATION:	LINEAR FT.
Clear		RISER HEIGHT:	TRENCH DEPTH
START TIME 7:00AM		FORCEMAIN: # EW-324	PIPE DIA. 2"
STOP TIME 2:00PM		STATION: 2+80 to 3+63	LINEAR FT. 83'
		RISER HEIGHT: 7'	TRENCH DEPTH 3' to 5'
		AIR: # EW-324	PIPE DIA. 2"
		STATION: 2+80 to 3+63	LINEAR FT. 83'
		RISER HEIGHT: 7'	TRENCH DEPTH 3' to 5'

COMMENTS (Description of Work Order Completed):

Toady we started with our morning safety meeting and then went up and finished trenching on both 2"air and 2" forcemain lines going to EW-323R and EW-324. We started by finishing off lateral going to EW-323R and then installed 90 risers at EW-323R. We then went down and finished trenching on lateral at EW-324. We started by digging thur road and to EW-324. We then installed 40ft of 12" CMP in road crossing and feed pipes thur and then installed 90 risers at EW-324. Once all pipe was in trench lines we started hualing dirt and back filling trench lines. We set survey risers every 50ft mark and fittings. Once we had backfilling complete and the water brums back in place we wrapped things up and left for the day.

John M. ... 6/28/14
CLIENT REPRESENTATIVE DATE
Donna B. ...
NAME & TITLE

[Signature] 6/28/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/29/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY
VALVES:	
VALVE STEMS:	
LAND-TEC WELLHEADS:	
IN-LINE SUMPS:	
QED VAULT KITS:	
QED PUMPS:	
ENCASEMENTS:	
MISC. ITEMS / EXTRA DETAIL: (Described Below)	
WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
START TIME _____	
STOP TIME _____	

FORCEMAIN: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
HAR: _____	TRENCH DEPTH _____
FORCEMAIN: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
FORCEMAIN: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
AIR: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
FORCEMAIN: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
AIR: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
FORCEMAIN: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
AIR: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____

Today we didnt work

Joe Medina 6/29/14
CLIENT REPRESENTATIVE
Forrest A. Tolia CQA
NAME & TITLE

[Signature]
AEGL SUPERINTENDENT
DATE 6/29/2014



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 6/30/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: # EW-156R	PIPE DIA. 6"
VALVE STEMS:		STATION: 0+00 to 1+54	LINEAR FT. 154'
LAND-TEC WELLHEADS:		HAR: 6'	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:		LATERAL: # EW-49R4 same trench156f	PIPE DIA. 6"
QED VAULT KITS:		STATION: 0+00 to 1+50	LINEAR FT. 150'
QED PUMPS:		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
ENCASEMENTS:		LATERAL: # EW-49R4	PIPE DIA. 6"
		STATION: 1+50 to 2+80	LINEAR FT. 130'
		RISER HEIGHT:	TRENCH DEPTH 3' to 5'
MISC. ITEMS / EXTRA DETAIL: (Described Below)		FORCEMAIN: # EW-156R same trench49R4	PIPE DIA. 2"
		STATION: 0+00 to 1+30	LINEAR FT. 130'
		RISER HEIGHT: 6'	TRENCH DEPTH
WEATHER & TIME INFORMATION		AIR: # EW-156R same trench49R4	PIPE DIA. 2"
		STATION: 0+00 to 1+30	LINEAR FT. 130'
		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
DAILY CONDITIONS: Clear		FORCEMAIN: # EW-49R4	PIPE DIA. 2"
		STATION: 1+30 to 1+65	LINEAR FT. 35'
		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
START TIME 7:00AM STOP TIME 6:00PM		AIR: # EW-49R4	PIPE DIA. 2"
		STATION: 1+30 to 1+65	LINEAR FT. 35'
		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went up and started trenching on laterals for EW-156R and EW-49R4. Once we started digging we found out there was no air and forcemain at tie in point so we got with Justin with SCS and he ok that we could just get it from the old well EW-49R3. Once we had down slope wells trenched we then tie into new wells. We tie in EW-156R with a 6" tee and tie in EW-49R4 with a 8x6 tee. Once laterals were tie in we then put 2" air and 2" forcemain in trench line. We started with 2" 90 risers at EW-156R and then went down and installed 2" tee risers at EW-49R4. We then went over and tie in air and forcemain to existing risers at old well EW-49R3. Once all pipe we were tie in we started hauling dirt and back filling trench lines. Also all pipes were air tested and passed by Janet the QC. While were were back filling we abandon EW-156 with 6" slip cap and EW-49R3 with 8" slip cap. We also abandon existing air and forcemain risers at EW-156. We then set survey risers every 50ft mark and fittings. After all trenches we back filled we wrapped things up and left for the day.

CLIENT REPRESENTATIVE

DATE

AEGL SUPERINTENDENT

DATE

NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 7/1/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		FORCEMAIN: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:	6	HAR:	TRENCH DEPTH
IN-LINE SUMPS:		AIR: #	PIPE DIA.
QED VAULT KITS:	1-8" and 1-6"	STATION:	LINEAR FT.
QED PUMPS:	2	RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:			
MISC. ITEMS / EXTRA DETAIL: (Described Below)		LATERAL: # EW-96R	PIPE DIA. 6"
		STATION: 0+00 to 0+40	LINEAR FT. 40'
		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
		LATERAL: # manifold cleanout	PIPE DIA. 6"
		STATION: 0+00 to 0+19	LINEAR FT. 19'
		RISER HEIGHT: 5'	TRENCH DEPTH above grade
		LATERAL: # North cleanout	PIPE DIA. 6"
		STATION: 0+00 to 0+17	LINEAR FT. 17'
		RISER HEIGHT: 5'	TRENCH DEPTH above grade
		LATERAL: # South cleanout	PIPE DIA. 6"
		STATION: 0+00 to 0+23	LINEAR FT. 23'
		RISER HEIGHT: 5'	TRENCH DEPTH above grade
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
WEATHER & TIME INFORMATION			
DAILY CONDITIONS: clear			
START TIME 7:00AM			
STOP TIME 6:00PM			

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went over and installed pumps down EW-49R4 and EW-156R. We set pumps at EW-49R4 at 101ft S/N# 4-12842 and EW-156R at 77ft S/N# 4-12836. We then flipped over wellheads from existing risers and hooked them up to the new risers. We then abandon old 6" risers at EW-49R3 and EW-156 with 6" slip caps. We then went over and dug up 6" lateral at EW-96R. Once lateral was dug up and old well was dug around we cut thru liner and abandon EW-96 with 6" slip cap. We then tie in new 6" lateral at EW-96R to existing 6" lateral. Once tie in was complete we spilt up and went and dug around EW-32R. While the guys went and did liner repair at old well EW-96 and then put liner boot around EW-32R. We spent 4hrs with testing liner and making repairs. We then went over and tied in south cleanout with 6" tee and a 90 pointing up the hill and put a 90 riser beside cleanout. We then went over to manifold and installed a 12X6 tee with 6" 90 pointing up the hill and ran 6" up to manifold and installed 6" 90 riser at manifold. We then went to the north cleanout and installed a 6" tee with 6" 90 pointing up the hill and ran 6" pipe up to cleanout and put 6" 90 riser at cleanout. Once we had cleanouts all tie in we then hooked them up with 3-2" wellheads. After cleanouts had wellheads on them we then went up top and fabbed up parts to do more tie ins tomorrow. We then wrapped things up and left for the day.

John M. Media 7/1/14
CLIENT REPRESENTATIVE DATE

John M. Media 7/1/2014
AEGL SUPERINTENDENT DATE

Frank A. Todio CEA
NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 7/2/2014

PROJECT NAME: Lorain County Landfill

CLIENT/PROJECT# 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: # EW-32R2	PIPE DIA. 6"
VALVE STEMS:		STATION: 0+00 to 0+40	LINEAR FT. 40'
LAND-TEC WELLHEADS:	4	RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:		LATERAL: # EW-118R	PIPE DIA. 6"
QED VAULT KITS:		STATION: 0+00 to 0+29	LINEAR FT. 29'
QED PUMPS:		RISER HEIGHT: 5'	TRENCH DEPTH 3' to 5'
ENCASEMENTS:		LATERAL: # EW-116R2	PIPE DIA. 6"
		STATION: 0+00 to 0+28	LINEAR FT. 28'
		RISER HEIGHT: 5'	TRENCH DEPTH 3' to 5'
MISC. ITEMS / EXTRA DETAIL: (Described Below)		LATERAL: # EW-53R2	PIPE DIA. 6"
		STATION: 0+00 to 0+28	LINEAR FT. 28'
		RISER HEIGHT: 5'	TRENCH DEPTH 3' to 5'
		AIR # EW-53R2	PIPE DIA. 2"
		STATION: 0+00 to 0+28	LINEAR FT. 28'
		RISER HEIGHT: 5'	TRENCH DEPTH 3' to 5'
		FORCEMAIN: # EW-53R2	PIPE DIA. 2"
		STATION: 0+00 to 0+28	LINEAR FT. 28'
		RISER HEIGHT: 5'	TRENCH DEPTH 3' to 5'
WEATHER & TIME INFORMATION		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
DAILY CONDITIONS:			
clear			
START TIME 7:00AM			
STOP TIME 6:00PM			

Today we started with our morning safety meeting and then went up and dug on 6" laterals on top of liner. We started with EW-32R2 and once dug we then cut old well below liner and slip capped well and made liner repair. Once liner repair was complete we then installed 6" lateral and cut existing 90 riser off and fused new lateral in. After we had pipe tie in we then hooked up wellhead. We then went up to EW-118R and trenched in lateral and exposed around wells. We then cut old wells EW-118 and EW-118S and slip capped wells below liner and also fused a 6" buttcap on existing 6" vacuum riser below liner. We then made liner repairs. Once liner repair was complete we then installed 6" lateral in trench going to existing vacuum riser at EW-118S. We made tie in with 6" 90 elbow and ran pipe to EW-118R and installed a 90 riser. We then went over EW-116R2 and trenched lateral and around old wells. Once we had everything trenched we cut old wells below liner and Cap 6" vacuum and fused buttcap at EW-116S. Once everything was capped below liner we made liner repairs. We had a total of 8hrs on liner repairs for the day. We then installed 6" lateral in trench line and tie in lateral to existing vacuum line at the old well EW-116R and used 6" 90 elbow and then ran pipe up to EW-116R2 and installed 90 riser. After lateral was complete we then trench in 6" lateral at EW-53R2. Once trenching was complete we then tried to remove pump that was in well but it was stuck so we cut old well and abandon well with 6" slip cap. We then tied in 6" lateral with 6" 90 elbow at existing 6" vacuum riser and ran pipe up to new well and installed 90 riser. We then ran 2" air and forcemain from old well to new well. Once we had all pipes in trench line and all pipes in every trench line shoot at 3% or more grade we then started back filling trench lines. We set survey risers every 50ft mark and fitting. We also hooked up wellheads at EW-116R2, EW-118R and EW-53R2. Once backfilling was complete we then wrapped things up and left for the day.

John M. Davis 7/2/14
CLIENT REPRESENTATIVE DATE
Barry A. Tobin CQA
NAME & TITLE

[Signature] 7/2/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

PROJECT NAME:

Lorain County Landfill

DATE:

7/3/2014

CLIENT/PROJECT#

202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: # EW-60R	PIPE DIA. 6"
VALVE STEMS:		STATION: 0+00 to 0+15	LINEAR FT. 15'
LAND-TEC WELLHEADS:	3	HAR: 6'	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:		LATERAL: # EW-167R	PIPE DIA. 6"
QED VAULT KITS:	1-8"	STATION: 0+00 to 0+29	LINEAR FT. 29'
QED PUMPS:	1	RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
ENCASEMENTS:		LATERAL: # EW-52R3	PIPE DIA. 6"
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION: 0+00 to 0+41	LINEAR FT. 41'
		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
		FORCEMAIN: # EW-52R3	PIPE DIA. 2"
		STATION: 0+00 to 0+41	LINEAR FT. 41'
		RISER HEIGHT: 9'	TRENCH DEPTH 3' to 5'
		AIR: # EW-52R3	PIPE DIA. 2"
		STATION: 0+00 to 0+41	LINEAR FT. 41'
		RISER HEIGHT: 9'	TRENCH DEPTH 3' to 5'
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
clear	
START TIME	7:00AM
STOP TIME	5:00PM

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went up and started digging up tie in at EW-60R, EW-167R and EW-52R3. Once SCS was ready we started by tie in 6" lateral at EW-60R by using 6" 90 elbow on existing 6" vacuum riser and ran pipe over to EW-60R and installed 90 riser. We then cut and slip cap old EW-60 for abandonment and then hooked up wellhead back up to new well. We then went up and got ready for tie ins at EW-52R3 and EW-167R. After SCS got the isolation on center tree we started by tie in EW-167R. We started with 6" 90 elbow at existing riser and ran pipe over to new well and put 90 riser at well. We then abandon the old well EW-167 with 6" slip cap. We then hooked up wellhead to new well. We then went up and found out that we had to change well to a down slope well do to grade issues. So we then started by installing a 8x6 tee in new well and ran pipe up to existing vacuum riser and installed a 90 riser. We then cut and slip capped old EW-52R2. We then cut into existing 2" air and forcemain and ran it down to EW-52R3. Once all pipes were completely tie in we then dropped pump down EW-52R3 we set pump at 94' and S/N#4-12816. We then started back filling trench lines. We set survey risers every 50ft mark and fittings. While we were back filling the guys went down and fused up pipe and fittings. Once back filling was complete we then wrapped things up and left for the day.

CLIENT REPRESENTATIVE

DATE

AEGL SUPERINTENDENT

DATE

NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

PROJECT NAME:

Lorain County Landfill

DATE:

7/4/2014

CLIENT/PROJECT#

202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		AIR: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		FORCEMAIN: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		FORCEMAIN: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
WEATHER & TIME INFORMATION		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
DAILY CONDITIONS:		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
START TIME _____		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
STOP TIME _____		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.

Today we didnt work do to the holiday.

CLIENT REPRESENTATIVE

DATE

NAME & TITLE

AEGL SUPERINTENDENT

DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

PROJECT NAME:

Lorain County Landfill

DATE:

7/5/2014

CLIENT/PROJECT#

202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		HORIZONTAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		AIR: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION

DAILY CONDITIONS:

START TIME _____

STOP TIME _____

COMMENTS (Description of Work Order Completed):

Today we didnt work

Janell H. Davis 7/5/14
CLIENT REPRESENTATIVE DATE
Scott A. Todio CQA
NAME & TITLE

[Signature] 7/5/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

DATE: 7/6/2014

MISC. INSTALLED ITEMS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY
VALVES:	
VALVE STEMS:	
LAND-TEC WELLHEADS:	
IN-LINE SUMPS:	
QED VAULT KITS:	
QED PUMPS:	
ENCASEMENTS:	
MISC. ITEMS / EXTRA DETAIL: (Described Below)	
WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
START TIME _____	
STOP TIME _____	

FORCEMAIN: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
HAR: _____	TRENCH DEPTH _____
FORCEMAIN: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
FORCEMAIN: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
AIR: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
FORCEMAIN: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
AIR: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
FORCEMAIN: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
AIR: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____

Today we didnt work

John M. M... 7/6/14
CLIENT REPRESENTATIVE
John A. T... CQA
NAME & TITLE

[Signature] 7/6/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

PROJECT NAME:

Lorain County Landfill

DATE:

7/7/2014

CLIENT/PROJECT#

202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		LATERAL: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
MISC. ITEMS / EXTRA DETAIL: (Described Below)		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
Thunderstorms / clouds	
START TIME	7:00AM
STOP TIME	11:00 PM

COMMENTS (Description of Work Order Completed):

We had a safety meeting, Then we had more safety meeting with Fred, Went over gas meters.

CLIENT REPRESENTATIVE

DATE

Tanya A Tolia CQA

NAME & TITLE

AEGL SUPERINTENDENT

DATE

7/7/2014



American
Environmental
Group Ltd.

AEGL DAILY DIARY

PROJECT NAME:

Lorain County Landfill

DATE:

7/8/2014

CLIENT/PROJECT#

202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		FORCEMAIN: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:	1	HAR:	TRENCH DEPTH
IN-LINE SUMPS:		AIR: #	PIPE DIA.
QED VAULT KITS:		STATION:	LINEAR FT.
QED PUMPS:		RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
T&M 3 guys	2.5 hours	STATION: 0+00 to 0+46	LINEAR FT. 53'
MISC. ITEMS / EXTRA DETAIL: (Described Below)		RISER HEIGHT: 7'	TRENCH DEPTH 3' to 5'
Abandon 1 Well		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
WEATHER & TIME INFORMATION		AIR: #	PIPE DIA.
DAILY CONDITIONS:		STATION:	LINEAR FT.
Cloudy/ Thunderstorm/Rain		RISER HEIGHT:	TRENCH DEPTH
START TIME 7:00AM		FORCEMAIN: #	PIPE DIA.
STOP TIME 10:00PM		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

COMMENTS (Description of Work Order Completed):

We had a safety meeting. Then we trenched from 0+00 which is a 6" 90 degree riser for new well EW-323R and at 0+46 is the existing 6" riser to old EW-323. We installed 6" pipe and tie-in with 6" 90 degree and shot the elev every 10' to make sure it had 3 percent or more. Then we abandon existing EW-323 and capped it. Then we backfilled trench with caution tape. We made a 12" spool pipe 20' long and installed it for Rick and Jeff. It took 3 guys 2.5 hours.

CLIENT REPRESENTATIVE

DATE

AEGL SUPERINTENDENT

DATE

NAME & TITLE



PROJECT NAME:

Lorain County Landfill

DATE:

7/9/2014

CLIENT/PROJECT#

202-14-111

We had a safety meeting, Then we started trenching on laterals EW-157R and EW-45R3. We started at vacuum riser at EW-47R2 with 2-6" 90 degree riser, at 1+50 they split trenches at 1+66 is a 6" tee for remote tie-in to EW-157R, At 2+09 is a 6" 90 degree elbow we tie-in to existing 6" lateral to EW-45R3, We air test all laterals at 25 psi for 4 hours, Janet passed them, We then installed pipes and tie-in, We ran air and force main from existing EW 157 to new EW-157R, Then we abandon old EW-157 and the old lateral going to EW-45R3 We shot elev. on pipes every 10 to make sure it had 3 percent or more grade, Then we backfilled with caution tape and dressed up.

CLIENT REPRESENTATIVE

DATE _____

NAME & TITLE

AEGL SUPERINTENDENT

DATE _____



American
Environmental
Group Ltd.

AEGL DAILY DIARY

PROJECT NAME:

Lorain County Landfill

DATE:

7/10/2014

CLIENT/PROJECT#

202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: # EW-301R	PIPE DIA. 6"
VALVE STEMS:		STATION: 0+00 to 0+31	LINEAR FT. 37'
LAND-TEC WELLHEADS:	4	RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:		LATERAL: # EW-153R	PIPE DIA. 6"
QED VAULT KITS:		STATION: 0+00 to 0+40	LINEAR FT. 46'
QED PUMPS:		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
ENCASEMENTS:		AIR: #	PIPE DIA.
Abandon	3	STATION:	LINEAR FT.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		RISER HEIGHT:	TRENCH DEPTH
We spent 1.5 hours digging and looking for Air and Force Main		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
clear	
START TIME	7:00AM
STOP TIME	6:00PM

COMMENTS (Description of Work Order Completed):

We had a safety Meeting, Then we trenched EW-301R at 0+00 is a 6" 90 degree riser for new EW-301R at 0+31 is tie-in with a 6" 90 degree in the vacuum, We abandon EW-301 and switch the well head over, Then trenched EW-153R at 0+00 is a 6" 90 degree riser for new EW-153R at 0+40 is a 6" 90 degree tie-in to existing vacuum at EW-153, We abandon EW-153, We shot all pipes every 10' to check for 3 percent or more then backfilled with caution tape. We abandon vacuum to EW-157 and EW-45R3 and we abandon lateral to EW-157, Then we pit wellheads on EW-157R, EW-45R3, EW-301R, and EW-153R, We picked up pipes and dressed up areas, We also dug a wide trench 6 feet deep where we was to tie-in air and force main at EW-38R then we went down by the valves and dug 6 feet deep and couldn't find air and force main in either trenches, Janet called Chris and he told her to wait before we dug up any more, so we backfilled holes. We installed Safety grates on EW-157R, EW-301R, EW-153R and EW-60R.

John M. Hickey 7/10/14
CLIENT REPRESENTATIVE DATE

Portia A. Todd CQA
NAME & TITLE

[Signature] 7/10/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

PROJECT NAME:

Lorain County Landfill

DATE:

7/11/2014

CLIENT/PROJECT#

202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		AIR: # TEW-9R2	PIPE DIA. 2" sdr 9
VALVE STEMS:		STATION: 0+00 to 0+24	LINEAR FT. 30'
LAND-TEC WELLHEADS:		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:		FORCEMAIN: # TEW-9R2	PIPE DIA. 2" sdr 11
QED VAULT KITS:		STATION: 0+00 to 0+24	LINEAR FT. 30'
QED PUMPS:		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
ENCASEMENTS:		FORCEMAIN: # EW-34R3	PIPE DIA. 2" sdr 11
abandon wells	2	STATION: 0+00 to 0+30	LINEAR FT. 36'
MISC. ITEMS / EXTRA DETAIL: (Described Below)		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
		AIR: # EW-34R3	PIPE DIA. 2" sdr 9
		STATION: 0+00 to 0+30	LINEAR FT. 36'
		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
		LATERAL: # EW-34R3	PIPE DIA. 6" sdr 17
		STATION: 0+00 to 0+30	LINEAR FT. 36'
		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
		LATERAL: # TEW-9R2	PIPE DIA. 6" sdr 17
		STATION: 0+00 to 0+24	LINEAR FT. 30'
		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
31	
START TIME	7:00AM
STOP TIME	6:00PM

We had a safety meeting, then we trenched TEW-9R2 at 0+00 is a 6" 90 degree riser for TEW-9R2 at 0+24 we tie-in to existing 6" vacuum, air and FM, We abandon old TEW-9R1, Then we trenched EW-34R3 at 0+00 is a 6" 90 degree elbow riser for EW-34R3 at 0+30 we tie in to existing vacuum, air, and FM. We abandon old EW-34R2, We abandon old vacuum riser at EW-304R. We hauled dirt and dressed up areas and started making pumps. We backfilled all trenches. We installed safety grates on EW-34R3 and TEW-9R2.

CLIENT REPRESENTATIVE

DATE

AEGL SUPERINTENDENT

DATE

NAME & TITLE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

DATE: 7/12/2014

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT#: 202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		HEADER: #	PIPE DIA.
VALVE STEMS:		STATION:	LINEAR FT.
LAND-TEC WELLHEADS:		HAR:	TRENCH DEPTH
IN-LINE SUMPS:		HORIZONTAL: #	PIPE DIA.
QED VAULT KITS:	6	STATION:	LINEAR FT.
QED PUMPS:	6	RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		AIR: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below) Installed a 6" flange on EW-162		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		HEADER: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION

DAILY CONDITIONS: Clear

START TIME 7:00AM

STOP TIME 11:00AM

COMMENTS (Description of Work Order Completed):

We had a safety meeting, Then we installed pumps EW-55R is 27 feet deep and sn: 4-12821, EW-62R2 is 76'.2 deep and sn:4-12820, We had to put a 6" flange on EW-162 and is 37'.2 deep and sn:4-12817, EW-315R is 89'.7 deep and sn: 4-12815, EW-34R3 is 104' deep and sn:4-12822, EW53R2 is 115' deep and sn:4-12838.

CLIENT REPRESENTATIVE: *John P. ...* 7/12/14
NAME & TITLE: *John P. ... COA*

AEGL SUPERINTENDENT: *[Signature]* 7/12/2014
DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

PROJECT NAME: Lorain County Landfill
CLIENT/PROJECT# 202-14-111

DATE: 7/13/2014

MISC. INSTALLED ITEMS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY
VALVES:	
VALVE STEMS:	
LAND-TEC WELLHEADS:	
IN-LINE SUMPS:	
QED VAULT KITS:	
QED PUMPS:	
ENCASEMENTS:	
MISC. ITEMS / EXTRA DETAIL: (Described Below)	
WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
START TIME _____	
STOP TIME _____	

FORCEMAIN: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
HAR: _____	TRENCH DEPTH _____
FORCEMAIN: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
FORCEMAIN: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
AIR: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
FORCEMAIN: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
AIR: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
FORCEMAIN: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____
AIR: # _____	PIPE DIA. _____
STATION: _____	LINEAR FT. _____
RISER HEIGHT: _____	TRENCH DEPTH _____

Today we didnt work

Frank A. Todia 7/13/14
CLIENT REPRESENTATIVE
Frank A. Todia CQA
NAME & TITLE

[Signature] 7/13/2014
AEGL SUPERINTENDENT DATE



American
Environmental
Group Ltd.

AEGL DAILY DIARY

PROJECT NAME:

Lorain County Landfill

CLIENT/PROJECT#

202-14-111

DATE:

7/14/2014

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		LATERAL: # EW-57R3	PIPE DIA. 6"
VALVE STEMS:		STATION: 0+00 to 0+60	LINEAR FT. 60'
LAND-TEC WELLHEADS:		HAR: 6'	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:	3	LATERAL: #	PIPE DIA.
QED VAULT KITS:	2-6"	STATION:	LINEAR FT.
QED PUMPS:	2	RISER HEIGHT:	TRENCH DEPTH
ENCASEMENTS:		LATERAL: #	PIPE DIA.
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		FORCEMAIN: # EW-57R3	PIPE DIA. 2"
		STATION: 3+30 to 4+58	LINEAR FT. 128'
		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
		AIR: # EW-57R3 same trenchw/FL	PIPE DIA. 2"
		STATION: 0+00 to 0+58	LINEAR FT. 58'
		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
		FORCEMAIN: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION	
DAILY CONDITIONS:	
clear	
START TIME	7:00AM
STOP TIME	6:15PM

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went up and trenched on 6" lateral going to EW-57R3. Once we had trench dug we then went over and dug around existing old well and cut and abandon EW-57R2 with 6" slip cap. We then got with SCS and had them isolate so we could tie in 6" lateral. Once they had system isolated we then cut pipe and installed a 90 elbow pointing to EW-57R3 and then fused in lateral and installed a 90 riser at new well. We then dug different trench for the 2" air and forcemain going to EW-57R3. We continued from the forcemain coming from EW-128R and then picked up the air line from existing old well EW-57R2. We then cut and capped the 2" forcemain riser at old well with 2" buttcap. We then went and set 2 pumps at EW-41R S/N#4-12834 and EW-13R2 S/N# 4-12819. We then started hauling dirt to trench line and back filled trench line. We also put wellheads on EW-13R2, EW-41R and EW-57R3. Once we had back filling complete we wrapped things up and left for the day.

CLIENT REPRESENTATIVE

DATE

AEGL SUPERINTENDENT

DATE

NAME & TITLE



**American
Environmental
Group Ltd.**

AEGL DAILY DIARY

PROJECT NAME:

Lorain County Landfill

DATE:

7/15/2014

CLIENT/PROJECT#

202-14-111

MISC. INSTALLED ITEMS / Construction		PIPELINE INSTALLATION DETAILS / Construction	
INSTALLED ITEM	INSTALLED QUANTITY		
VALVES:		FORCEMAIN: # EW-56R3	PIPE DIA. 2"
VALVE STEMS:		STATION: 0+00 to 0+38	LINEAR FT. 38'
LAND-TEC WELLHEADS:		HAR: 6'	TRENCH DEPTH 3' to 5'
IN-LINE SUMPS:		AIR: # EW-56R3	PIPE DIA. 2"
QED VAULT KITS:		STATION: 0+00 to 0+38	LINEAR FT. 38'
QED PUMPS:		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
ENCASEMENTS:		LATERAL: # EW-56R3	PIPE DIA. 6"
MISC. ITEMS / EXTRA DETAIL: (Described Below)		STATION: 0+00 to 0+38	LINEAR FT. 38'
		RISER HEIGHT: 6'	TRENCH DEPTH 3' to 5'
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		LATERAL: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH
		AIR: #	PIPE DIA.
		STATION:	LINEAR FT.
		RISER HEIGHT:	TRENCH DEPTH

WEATHER & TIME INFORMATION

DAILY CONDITIONS:

clear

START TIME 7:00AM

STOP TIME 6:00PM

COMMENTS (Description of Work Order Completed):

Today we started with our morning safety meeting and then went over and trenched 6" lateral at EW-56R3. Once trench was dug we then started tie in for lateral. We started by fusing 90 elbow pointing to EW-56R3 then fused in 6" lateral to 90 and installed 6" 90 riser at EW-56R3. We then tie into the existing 2" air and forcemain at old well EW-56R2 and ran it up to new well. We then pulled existing pump out of old well and cut and abandon EW-56R2 with 6" slip cap. Once we had wellhead and lateral pipes hooked up we backfilled trench line. We then went and took all pipe and fittings down to boneyard and cleaned up all trash. Also the surveyors came out and shot all riser pipes so we pulled and survey riser out. We then started doing dress up work. Once we ran out of time we then wrapped thing up and left for the day.

CLIENT REPRESENTATIVE

DATE

James A Todia CQA

NAME & TITLE

AEGL SUPERINTENDENT

7/15/2014
DATE



DATE: 7/16/2014

Lorain County Landfill

CLIENT/PROJECT#

202-14-111

Today we started with our morning safety meeting and then went up and started hauling dirt to all trench lines for finished dress up work. We then also had our walk thru with Chris and everything was good beside finishing dress up work. We also went around to all new wells and made sure they were labeled and had reflector tape around them. Once we had all dirt hauled we took equipment down to job trailer and cleaned them out so we can call them off. We then wrapped things up and left for the day.

CLIENT REPRESENTATIVE

DATE _____

James A Tadić CPA

NAME & TITLE

AEGL SUPERINTENDENT

7/16/2014

DATE _____



SUPERVISOR:	Billy Long
PROJECT NAME:	Lorain County Landfill
PROJECT #:	214111

Start Time 7:00 AM **End Time** 11:00 AM **Total Hrs.**

CLIENT REPRESENTATIVE 4/14/14 DATE 4/14/14
 NAME & TITLE John A. Doe CBA

6/14/2014
DATE



American
Environmental
Group Ltd.

Drill Crew Daily Report

SUPERVISOR: Billy Long
PROJECT NAME: Lorain County Landfill
PROJECT #: 214111

DATE: June 16, 2014

Start Time 6:30 AM End Time 6:00 PM Total Hrs. _____

DRILLING		Owned Equipment	
84	LINEAR FEET OF DRILLING	Equipment # 7223	Start Miles
	LINEAR FEET OF DRILLING-ABANDONMENT	Equipment Type / f250	Ending Miles
			Total Miles
84	LINEAR FEET OF WELL COMPLETION	Equipment # 7048	Start Hrs.
	How many benches built	Equipment Type trailer	Ending Hrs.
			Total Hrs.
1	# Of Safety Grates Installed	Equipment # 3893	Start Hrs. 6:30
		Equipment Type drill	Ending Hrs. 2:30 PM
			Total Hrs.
		Equipment #	Start Hrs.
		Equipment Type	Ending Hrs.
			Total Hrs.
COMPLETION		Rental Equipment	
WELL #	VF	Rental Company	Start Hrs.
EW-118R	84'	Location	Ending Hrs.
		Equipment Type	Total Hrs.
		Unit #	
		Rental Company	Start Hrs.
		Location	Ending Hrs.
		Equipment Type	Total Hrs.
		Unit #	
		Rental Company	Start Hrs.
		Location	Ending Hrs.
		Equipment Type	Total Hrs.
		Unit #	0
COMMENTS			
We hit sludge around 70' had to change drill line at 12 noon to 1:30 , Then we change Drill line and swivel at from 2:30 PM, to 6:00 PM.			

[Signature] 6/16/14
CLIENT REPRESENTATIVE DATE
[Signature] Todd CAA
NAME & TITLE

Billy Long
AEGL SITE SUPERVISOR

6/16/2014
DATE



American
Environmental
Group Ltd.

Drill Crew Daily Report

SUPERVISOR: Billy Long
PROJECT NAME: Lorain County Landfill
PROJECT #: 214111

DATE: June 17, 2014

Start Time 7:00 AM End Time 4:30 PM Total Hrs.

DRILLING		Owned Equipment	
113	LINEAR FEET OF DRILLING	Equipment # <u>7223</u>	Start Miles <u> </u>
	LINEAR FEET OF DRILLING-ABANDONMENT	Equipment Type / <u>f250</u>	Ending Miles <u> </u>
			Total Miles <u> </u>
113	LINEAR FEET OF WELL COMPLETION	Equipment # <u>7048</u>	Start Hrs. <u> </u>
	How many benches built	Equipment Type <u>trailer</u>	Ending Hrs. <u> </u>
			Total Hrs. <u> </u>
1	# Of Safety Grates Installed	Equipment # <u>3893</u>	Start Hrs. <u>5844</u>
		Equipment Type <u>drill</u>	Ending Hrs. <u>5852</u>
			Total Hrs. <u> </u>
		Equipment # <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
			Total Hrs. <u> </u>
COMPLETION			
<u>WELL #</u>	<u>VF</u>		
<u>EW-116R2</u>	<u>113'</u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
COMMENTS		Rental Equipment	
We Drilled EW-116R2 and completed it.		Rental Company <u> </u>	
		Location <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
		Unit # <u> </u>	Total Hrs. <u> </u>
		Rental Company <u> </u>	
		Location <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
		Unit # <u> </u>	Total Hrs. <u> </u>
		Rental Company <u> </u>	
		Location <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
		Unit # <u> </u>	Total Hrs. <u> </u>
		Rental Company <u> </u>	
		Location <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
Unit # <u> </u>	Total Hrs. <u>0</u>		

CLIENT REPRESENTATIVE

DATE

Billy Long
AEGL SITE SUPERVISOR

6/17/2014
DATE

NAME & TITLE



American
Environmental
Group Ltd.

Drill Crew Daily Report

SUPERVISOR: Billy Long
PROJECT NAME: Lorain County Landfill
PROJECT #: 214111

DATE: June 18, 2014

Start Time 7:00 AM End Time 5:00 PM Total Hrs. 10.00

DRILLING		Owned Equipment	
33	LINEAR FEET OF DRILLING	Equipment # <u>7223</u>	Start Miles <u> </u>
	LINEAR FEET OF DRILLING-ABANDONMENT	Equipment Type / <u>f250</u>	Ending Miles <u> </u>
			Total Miles <u> </u>
33	LINEAR FEET OF WELL COMPLETION	Equipment # <u>7048</u>	Start Hrs. <u> </u>
	How many benches built	Equipment Type <u>trailer</u>	Ending Hrs. <u> </u>
			Total Hrs. <u> </u>
1	# Of Safety Grates Installed	Equipment # <u>3893</u>	Start Hrs. <u>5852</u>
		Equipment Type <u>drill</u>	Ending Hrs. <u>5854</u>
			Total Hrs. <u> </u>
		Equipment # <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
			Total Hrs. <u> </u>
COMPLETION			
<u>WELL #</u>	<u>VF</u>		
<u>EW-60R</u>	<u>33</u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
COMMENTS		Rental Equipment	
We Drilled EW-60R and completed it. Moved drill to staging area where electrical repairs were made.		Rental Company <u> </u>	Start Hrs. <u> </u>
		Location <u> </u>	Ending Hrs. <u> </u>
		Equipment Type <u> </u>	Total Hrs. <u> </u>
		Unit # <u> </u>	
		Rental Company <u> </u>	Start Hrs. <u> </u>
		Location <u> </u>	Ending Hrs. <u> </u>
		Equipment Type <u> </u>	Total Hrs. <u> </u>
		Unit # <u> </u>	
		Rental Company <u> </u>	Start Hrs. <u> </u>
		Location <u> </u>	Ending Hrs. <u> </u>
		Equipment Type <u> </u>	Total Hrs. <u> </u>
		Unit # <u> </u>	
		Rental Company <u> </u>	Start Hrs. <u> </u>
		Location <u> </u>	Ending Hrs. <u> </u>
		Equipment Type <u> </u>	Total Hrs. <u>0</u>

James M. Kellett 6/18/14
CLIENT REPRESENTATIVE DATE
James M. Kellett CHA
NAME & TITLE

Charles Kellett
AEGL SITE SUPERVISOR

6/18/2014
DATE



American
Environmental
Group Ltd.

Drill Crew Daily Report

SUPERVISOR: Charles Kellett
PROJECT NAME: Lorain County Landfill
PROJECT #: 214111

DATE: June 20, 2014

Start Time 7:00 AM End Time 3:00 PM Total Hrs. 0:00

DRILLING		Owned Equipment	
110	LINEAR FEET OF DRILLING	Equipment # <u>7223</u>	Start Miles _____
	LINEAR FEET OF DRILLING-ABANDONMENT	Equipment Type / <u>f250</u>	Ending Miles _____
			Total Miles _____
110	LINEAR FEET OF WELL COMPLETION	Equipment # <u>7048</u>	Start Hrs. _____
	How many benches built	Equipment Type <u>trailer</u>	Ending Hrs. _____
			Total Hrs. _____
1	# Of Safety Grates Installed	Equipment # <u>3893</u>	Start Hrs. _____
		Equipment Type <u>drill</u>	Ending Hrs. <u>5863.6</u>
			Total Hrs. _____
		Equipment # _____	Start Hrs. _____
		Equipment Type _____	Ending Hrs. _____
			Total Hrs. _____
COMPLETION			
WELL #	VF		
EW-153R2	110		
_____	_____		
_____	_____		
_____	_____		
_____	_____		
_____	_____		
_____	_____		
COMMENTS		Rental Equipment	
Completed after rain had begun drilling stopped in wet ash		Rental Company _____	
		Location _____	Start Hrs. _____
		Equipment Type _____	Ending Hrs. _____
		Unit # _____	Total Hrs. _____
		Rental Company _____	
		Location _____	Start Hrs. _____
		Equipment Type _____	Ending Hrs. _____
		Unit # _____	Total Hrs. _____
		Rental Company _____	
		Location _____	Start Hrs. _____
		Equipment Type _____	Ending Hrs. _____
		Unit # _____	Total Hrs. <u>0</u>

Charles Kellett 6/20/14
CLIENT REPRESENTATIVE DATE
Frank D. Todia CGA
NAME & TITLE

Charles Kellett
AEGL SITE SUPERVISOR

6/20/2014
DATE



American
Environmental
Group Ltd.

Drill Crew Daily Report

SUPERVISOR: Charles Kellett
PROJECT NAME: Lorain County Landfill
PROJECT #: 214111

DATE: June 23, 2014

Start Time 12:00PM End Time 3:30 PM Total Hrs. 3:30

DRILLING		Owned Equipment	
154	LINEAR FEET OF DRILLING	Equipment # <u>7223</u>	Start Miles _____
	LINEAR FEET OF DRILLING-ABANDONMENT	Equipment Type / <u>f250</u>	Ending Miles _____
			Total Miles _____
154	LINEAR FEET OF WELL COMPLETION	Equipment # <u>7048</u>	Start Hrs. _____
	How many benches built	Equipment Type <u>trailer</u>	Ending Hrs. _____
			Total Hrs. _____
1	# Of Safety Grates Installed	Equipment # <u>3893</u>	Start Hrs. _____
		Equipment Type <u>drill</u>	Ending Hrs. <u>5872</u>
			Total Hrs. _____
		Equipment # _____	Start Hrs. _____
		Equipment Type _____	Ending Hrs. _____
			Total Hrs. _____
COMPLETION			
<u>WELL #</u>	<u>VF</u>		
<u>EW-32R2</u>	<u>83</u>		
<u>EW-323R</u>	<u>71</u>		
_____	_____		
_____	_____		
_____	_____		
_____	_____		
_____	_____		
COMMENTS		Rental Equipment	
Completed after rain had begun drilling stopped in wet ash		Rental Company _____	
		Location _____	Start Hrs. _____
		Equipment Type _____	Ending Hrs. _____
		Unit # _____	Total Hrs. _____
		Rental Company _____	
		Location _____	Start Hrs. _____
		Equipment Type _____	Ending Hrs. _____
		Unit # _____	Total Hrs. _____
		Rental Company _____	
		Location _____	Start Hrs. _____
		Equipment Type _____	Ending Hrs. _____
		Unit # _____	Total Hrs. <u>0</u>

Michael L. Ladd 6/30/14
CLIENT REPRESENTATIVE DATE
Michael Ladd CQA
NAME & TITLE

Charles Kellett
AEGL SITE SUPERVISOR

6/23/14
DATE



American
Environmental
Group Ltd.

Drill Crew Daily Report

SUPERVISOR: Charles Kellett
PROJECT NAME: Lorain County Landfill
PROJECT #: 214111

DATE: June 24, 2014

Start Time 7:00 AM End Time 3:30 PM Total Hrs. 8:00

DRILLING		Owned Equipment	
120	LINEAR FEET OF DRILLING	Equipment # 7223	Start Miles
	LINEAR FEET OF DRILLING-ABANDONMENT	Equipment Type / f250	Ending Miles
			Total Miles
120	LINEAR FEET OF WELL COMPLETION	Equipment # 7048	Start Hrs.
	How many benches built	Equipment Type trailer	Ending Hrs.
			Total Hrs.
1	# Of Safety Grates Installed	Equipment # 3893	Start Hrs. 5872.5
		Equipment Type drill	Ending Hrs. 5878
			Total Hrs.
		Equipment #	Start Hrs.
		Equipment Type	Ending Hrs.
			Total Hrs.
COMPLETION		Rental Equipment	
WELL #	VF	Rental Company	
53R2	120	Location	Start Hrs.
		Equipment Type	Ending Hrs.
		Unit #	Total Hrs.
		Rental Company	
		Location	Start Hrs.
		Equipment Type	Ending Hrs.
		Unit #	Total Hrs.
		Rental Company	
		Location	Start Hrs.
		Equipment Type	Ending Hrs.
		Unit #	Total Hrs. 0
COMMENTS			
Drilled and completed			

CLIENT REPRESENTATIVE DATE
NAME & TITLE

Charles Kellett
AEGL SITE SUPERVISOR

6/24/2014
DATE



SUPERVISOR:	Charles Kellett
PROJECT NAME:	Lorain County Landfill
PROJECT #:	214111

DATE: June 26, 2014

Start Time 6:30 AM **End Time** 6:30 PM **Total Hrs.** 12:00

[illegible]

CLIENT REPRESENTATIVE 6/12/14 DATE 6/12/14
 NAME & TITLE Bonita Radio CDA

Charles Kellett
AEGL SITE SUPERVISOR

6/26/2014
DATE



American
Environmental
Group Ltd.

Drill Crew Daily Report

SUPERVISOR: Charles Kellett
PROJECT NAME: Lorain County Landfill
PROJECT #: 214111

DATE: June 27, 2014

Start Time 6:30 AM End Time 6:15 AM Total Hrs. 11:45:00 AM

DRILLING		Owned Equipment	
85	LINEAR FEET OF DRILLING	Equipment # <u>7223</u>	Start Miles <u> </u>
	LINEAR FEET OF DRILLING-ABANDONMENT	Equipment Type / <u>f250</u>	Ending Miles <u> </u>
			Total Miles <u> </u>
85	LINEAR FEET OF WELL COMPLETION	Equipment # <u>7048</u>	Start Hrs. <u> </u>
	How many benches built	Equipment Type <u>trailer</u>	Ending Hrs. <u> </u>
			Total Hrs. <u> </u>
1	# Of Safety Grates Installed	Equipment # <u>3893</u>	Start Hrs. <u>5886</u>
		Equipment Type <u>drill</u>	Ending Hrs. <u>5892</u>
			Total Hrs. <u>6</u>
		Equipment # <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
			Total Hrs. <u> </u>
COMPLETION			
<u>WELL #</u>	<u>VF</u>		
<u>156R</u>	<u>85</u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
COMMENTS		Rental Equipment	
Drilled and completed Cable broke drilling in Sludge		Rental Company <u> </u>	Start Hrs. <u> </u>
		Location <u> </u>	Ending Hrs. <u> </u>
		Equipment Type <u> </u>	Total Hrs. <u> </u>
		Unit # <u> </u>	
		Rental Company <u> </u>	Start Hrs. <u> </u>
		Location <u> </u>	Ending Hrs. <u> </u>
		Equipment Type <u> </u>	Total Hrs. <u> </u>
		Unit # <u> </u>	
		Rental Company <u> </u>	Start Hrs. <u> </u>
		Location <u> </u>	Ending Hrs. <u> </u>
		Equipment Type <u> </u>	Total Hrs. <u> </u>
		Unit # <u> </u>	
		Rental Company <u> </u>	Start Hrs. <u> </u>
		Location <u> </u>	Ending Hrs. <u> </u>
		Equipment Type <u> </u>	Total Hrs. <u>0</u>

Charles Kellett 6/27/14
CLIENT REPRESENTATIVE DATE
Charles Kellett
NAME & TITLE

Charles Kellett
AEGL SITE SUPERVISOR

6/27/2014
DATE



American
Environmental
Group Ltd.

Drill Crew Daily Report

SUPERVISOR: Charles Kellett
PROJECT NAME: Lorain County Landfill
PROJECT #: 214111

DATE: June 27, 2014

Start Time 6:30 AM End Time 2:30 PM Total Hrs. 8:00

DRILLING		Owned Equipment	
77	LINEAR FEET OF DRILLING	Equipment # <u>7223</u>	Start Miles <u> </u>
	LINEAR FEET OF DRILLING-ABANDONMENT	Equipment Type / <u>1250</u>	Ending Miles <u> </u>
			Total Miles <u> </u>
77	LINEAR FEET OF WELL COMPLETION	Equipment # <u>7048</u>	Start Hrs. <u> </u>
	How many benches built	Equipment Type <u>trailer</u>	Ending Hrs. <u> </u>
			Total Hrs. <u> </u>
1	# Of Safety Grates Installed	Equipment # <u>3893</u>	Start Hrs. <u>5895</u>
		Equipment Type <u>drill</u>	Ending Hrs. <u>5898.25</u>
			Total Hrs. <u>3.25</u>
		Equipment # <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
			Total Hrs. <u> </u>
COMPLETION			
<u>WELL #</u>	<u>VF</u>		
<u>301R</u>	<u>77</u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
COMMENTS		Rental Equipment	
Drilled and completed		Rental Company <u> </u>	
		Location <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
		Unit # <u> </u>	Total Hrs. <u> </u>
		Rental Company <u> </u>	
		Location <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
		Unit # <u> </u>	Total Hrs. <u> </u>
		Rental Company <u> </u>	
		Location <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
		Unit # <u> </u>	Total Hrs. <u> </u>
		Rental Company <u> </u>	
		Location <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
Unit # <u> </u>	Total Hrs. <u>0</u>		

Scott A. Tachibana 6/28/14
CLIENT REPRESENTATIVE DATE
Scott A. Tachibana
NAME & TITLE

Charles Kellett
AEGL SITE SUPERVISOR

6/28/2014
DATE



American
Environmental
Group Ltd.

Drill Crew Daily Report

SUPERVISOR: Charles Kellett
PROJECT NAME: Lorain County Landfill
PROJECT #: 214111

DATE: July 1, 2014

Start Time 6:30 AM End Time 5:30 PM Total Hrs. 11:00

DRILLING		Owned Equipment	
93	LINEAR FEET OF DRILLING	Equipment # <u>7223</u>	Start Miles <u> </u>
	LINEAR FEET OF DRILLING-ABANDONMENT	Equipment Type / <u>f250</u>	Ending Miles <u> </u>
			Total Miles <u> </u>
93	LINEAR FEET OF WELL COMPLETION	Equipment # <u>7048</u>	Start Hrs. <u> </u>
	How many benches built	Equipment Type <u>trailer</u>	Ending Hrs. <u> </u>
			Total Hrs. <u> </u>
1	# Of Safety Grates Installed	Equipment # <u>3893</u>	Start Hrs. <u>5898.8</u>
		Equipment Type <u>drill</u>	Ending Hrs. <u>5903.6</u>
			Total Hrs. <u>4.5</u>
		Equipment # <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
			Total Hrs. <u> </u>
COMPLETION			
<u>WELL #</u>	<u>VF</u>		
<u>157R</u>	<u>93</u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
COMMENTS		Rental Equipment	
Drilled and completed		Rental Company <u> </u>	Start Hrs. <u> </u>
		Location <u> </u>	Ending Hrs. <u> </u>
		Equipment Type <u> </u>	Total Hrs. <u> </u>
		Unit # <u> </u>	
		Rental Company <u> </u>	Start Hrs. <u> </u>
		Location <u> </u>	Ending Hrs. <u> </u>
		Equipment Type <u> </u>	Total Hrs. <u> </u>
		Unit # <u> </u>	
		Rental Company <u> </u>	Start Hrs. <u> </u>
		Location <u> </u>	Ending Hrs. <u> </u>
		Equipment Type <u> </u>	Total Hrs. <u> </u>
		Unit # <u> </u>	<u>0</u>

Charles Kellett 7/1/14
CLIENT REPRESENTATIVE DATE
Ernest A. Todaro CE
NAME & TITLE

Charles Kellett
AEGL SITE SUPERVISOR

7/1/2014
DATE



American
Environmental
Group Ltd.

Drill Crew Daily Report

SUPERVISOR: Charles Kellett
PROJECT NAME: Lorain County Landfill
PROJECT #: 214111

DATE: July 2, 2014

Start Time 6:30 AM End Time 6:30 PM Total Hrs. 12:00

DRILLING		Owned Equipment	
194	LINEAR FEET OF DRILLING	Equipment # <u>7223</u>	Start Miles <u> </u>
	LINEAR FEET OF DRILLING-ABANDONMENT	Equipment Type / <u>7250</u>	Ending Miles <u> </u>
			Total Miles <u> </u>
194	LINEAR FEET OF WELL COMPLETION	Equipment # <u>7048</u>	Start Hrs. <u> </u>
	How many benches built	Equipment Type <u>trailer</u>	Ending Hrs. <u> </u>
			Total Hrs. <u> </u>
1	# Of Safety Grates Installed	Equipment # <u>3893</u>	Start Hrs. <u>5903.6</u>
		Equipment Type <u>drill</u>	Ending Hrs. <u>5914</u>
			Total Hrs. <u>10.5</u>
		Equipment # <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
			Total Hrs. <u> </u>
COMPLETION			
WELL #	VF		
167 <u>R</u>	95		
52R3	99		
COMMENTS		Rental Equipment	
Drilled and completed		Rental Company <u> </u>	
		Location <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
		Unit # <u> </u>	Total Hrs. <u> </u>
		Rental Company <u> </u>	
		Location <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
		Unit # <u> </u>	Total Hrs. <u> </u>
		Rental Company <u> </u>	
		Location <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
		Unit # <u> </u>	Total Hrs. <u> </u>
		Rental Company <u> </u>	
		Location <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
Unit # <u> </u>	Total Hrs. <u>0</u>		

Charles Kellett 7/2/14
CLIENT REPRESENTATIVE DATE
Charles Kellett
NAME & TITLE

Charles Kellett
AEGL SITE SUPERVISOR

7/2/2014
DATE



American
Environmental
Group Ltd.

Drill Crew Daily Report

SUPERVISOR:

Charles Kellett

DATE: July 9, 2014

PROJECT NAME:

Lorain County Landfill

PROJECT #:

214111

Start Time 6:00 AM End Time 3:30 PM Total Hrs. 9:00

DRILLING		Owned Equipment	
101	LINEAR FEET OF DRILLING	Equipment # 7223	Start Miles
0	LINEAR FEET OF DRILLING-ABANDONMENT	Equipment Type / f250	Ending Miles
			Total Miles
101	LINEAR FEET OF WELL COMPLETION	Equipment # 7048	Start Hrs.
	How many benches built	Equipment Type trailer	Ending Hrs.
			Total Hrs.
1	# Of Safety Grates Installed	Equipment # 3893	Start Hrs. 5918
		Equipment Type drill	Ending Hrs. 5923.5
			Total Hrs. 5.5
COMPLETION		Equipment #	Start Hrs.
WELL #	VF	Equipment Type	Ending Hrs.
TEW-9R2	101		Total Hrs.
COMMENTS		Rental Equipment	
Drilled TEW-9R2 completed to depth		Rental Company	Start Hrs.
		Location	Ending Hrs.
		Equipment Type	Total Hrs.
		Unit #	
		Rental Company	Start Hrs.
		Location	Ending Hrs.
		Equipment Type	Total Hrs.
		Unit #	
		Rental Company	Start Hrs.
		Location	Ending Hrs.
		Equipment Type	Total Hrs. 0
		Unit #	

CLIENT REPRESENTATIVE

DATE

NAME & TITLE

Charles Kellett

AEGL SITE SUPERVISOR

7/9/2014

DATE



Drill Crew Daily Report

Charles Kellett

DATE: July 10, 2014

Lorain County Landfill

214111

Start Time 6:30 AM **End Time** 3:30 PM **Total Hrs.** 9:00

DRILLING		Owned Equipment	
<u>101</u>	LINEAR FEET OF DRILLING	Equipment # <u>7223</u>	Start Miles <u> </u>
<u>0</u>	LINEAR FEET OF DRILLING-ABANDONMENT	Equipment Type / <u>f250</u>	Ending Miles <u> </u>
<u>101</u>	LINEAR FEET OF WELL COMPLETION		Total Miles <u> </u>
<u> </u>	How many benches built	Equipment # <u>7048</u>	Start Hrs. <u> </u>
<u>1</u>	# Of Safety Grates Installed	Equipment Type <u>trailer</u>	Ending Hrs. <u> </u>
			Total Hrs. <u> </u>
COMPLETION		Equipment # <u>3893</u>	Start Hrs. <u>5923.5</u>
<u>WELL #</u>	<u>VF</u>	Equipment Type <u>drill</u>	Ending Hrs. <u>5929</u>
<u>EW-34R3</u>	<u>104</u>		Total Hrs. <u>5.5</u>
<u> </u>	<u> </u>	Equipment # <u> </u>	Start Hrs. <u> </u>
<u> </u>	<u> </u>	Equipment Type <u> </u>	Ending Hrs. <u> </u>
<u> </u>	<u> </u>		Total Hrs. <u> </u>
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
COMMENTS		Rental Equipment	
Drilled and completed to depth		Rental Company <u> </u>	
		Location <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
		Unit # <u> </u>	Total Hrs. <u> </u>
		Rental Company <u> </u>	
		Location <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
		Unit # <u> </u>	Total Hrs. <u> </u>
		Rental Company <u> </u>	
		Location <u> </u>	Start Hrs. <u> </u>
		Equipment Type <u> </u>	Ending Hrs. <u> </u>
		Unit # <u> </u>	Total Hrs. <u>0</u>

7/10/14
 CLIENT REPRESENTATIVE / DATE
Jonat A. Todia CQA
 NAME & TITLE

Charles Kellett
AEGL SITE SUPERVISOR

7/10/2014
DATE



American
Environmental
Group Ltd.

Drill Crew Daily Report

SUPERVISOR: Charles Kellett
PROJECT NAME: Lorain County Landfill
PROJECT #: 214111

DATE: July 11, 2014

Start Time 6:30 AM End Time 4:30 PM Total Hrs. 10:00

DRILLING		Owned Equipment	
112	LINEAR FEET OF DRILLING	Equipment # 7223	Start Miles
0	LINEAR FEET OF DRILLING-ABANDONMENT	Equipment Type / f250	Ending Miles
			Total Miles
112	LINEAR FEET OF WELL COMPLETION	Equipment # 7048	Start Hrs.
	How many benches built	Equipment Type trailer	Ending Hrs.
			Total Hrs.
1	# Of Safety Grates Installed	Equipment # 3893	Start Hrs. 5929
		Equipment Type drill	Ending Hrs. 5935.25
			Total Hrs. 6.25
		Equipment #	Start Hrs.
		Equipment Type	Ending Hrs.
			Total Hrs.
COMPLETION		Rental Equipment	
WELL #	VF	Rental Company	
EW-57R3	112	Location	Start Hrs.
		Equipment Type	Ending Hrs.
		Unit #	Total Hrs.
		Rental Company	
		Location	Start Hrs.
		Equipment Type	Ending Hrs.
		Unit #	Total Hrs.
		Rental Company	
		Location	Start Hrs.
		Equipment Type	Ending Hrs.
		Unit #	Total Hrs. 0
COMMENTS			
Drilled and completed to 112'			

Charles Kellett 7/11/14
CLIENT REPRESENTATIVE DATE
Charles Kellett CQA
NAME & TITLE

Charles Kellett
AEGL SITE SUPERVISOR

7/11/2014
DATE



American
Environmental
Group Ltd.

Drill Crew Daily Report

SUPERVISOR: Charles Kellett
PROJECT NAME: Lorain County Landfill
PROJECT #: 214111

DATE: July 14, 2014

Start Time 6:30 AM End Time 6:00 PM Total Hrs. 11:50

DRILLING		Owned Equipment	
118	LINEAR FEET OF DRILLING	Equipment # 7223	Start Miles
0	LINEAR FEET OF DRILLING-ABANDONMENT	Equipment Type / 7250	Ending Miles
118	LINEAR FEET OF WELL COMPLETION		Total Miles
1	How many benches built	Equipment # 7048	Start Hrs.
1	# Of Safety Grates Installed	Equipment Type trailer	Ending Hrs.
			Total Hrs.
COMPLETION		Equipment # 3893	Start Hrs. 5938
WELL #	VF	Equipment Type drill	Ending Hrs. 5944.25
EW-56R3	118		Total Hrs. 6.25
		Equipment #	Start Hrs.
		Equipment Type	Ending Hrs.
			Total Hrs.
COMMENTS		Rental Equipment	
Drilled and completed to 112'		Rental Company	Start Hrs.
		Location	Ending Hrs.
		Equipment Type	Total Hrs.
		Unit #	
		Rental Company	Start Hrs.
		Location	Ending Hrs.
		Equipment Type	Total Hrs.
		Unit #	
		Rental Company	Start Hrs.
		Location	Ending Hrs.
		Equipment Type	Total Hrs. 0
		Unit #	

CLIENT REPRESENTATIVE: *James A. Tolia* DATE: 7/14/14
NAME & TITLE: *COA*

Charles Kellett
AEGL SITE SUPERVISOR

7/14/2014
DATE



Daily Field Report

Name of Project/Site: Lot 27 II Phase I 2014

Project No: 151.0001

Project/Site Location: Chester, OH

Date: 4/6/14

CQA Monitor: Janet Todia

Time Onsite: 0700

Weather: 42°F + sunny

Time Offsite: 1630

Items Worked On:

- ☐ Gas Extraction Wells
- ☐ Gas Extraction Well Abandonment
- ☐ Waste Excavation/Relocation
- ☐ GCCS Piping

- ☐ Pressure Testing
- ☒ Temporary FML Installation/Repair
- ☐ Stormwater Channels/Structures
- ☐ Other -

Sunday Road King

Contractor(s): REG construction

Subcontractor(s): N/A

Visitor(s): N/A

Phone Call(s): N/A

Alteration(s): N/A

Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 begin excavation of main haul road
to install 4 pieces (20' each) of 16 gauge 48"
CMP for future pipe 24" 4" x 8" # 2"
while excavating keep through road fabric;
will replace road fabric w/ liner piece
to maintain structural integrity of road
the small piece of liner; looks like beam of
anchor trench 2' x 3' piece; will test w/
sensor & fix
asked to use site roller to roll road back in
1630 leave site after completion

Attachments:

- ☐ Contractor Report
- ☐ Field Notes
- ☐ Other:

Janet Todia 4/6/14

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Lo/ain II Phase 1 2014Project No: 151.0001Project/Site Location: Oberlin, OHDate: 4/7/14CQA Monitor: Janet TodiaTime Onsite: 0700Weather: overcast + 36°FTime Offsite: 1600

Items Worked On:

- ☐ Gas Extraction Wells
☐ Gas Extraction Well Abandonment
☐ Waste Excavation/Relocation
☒ GCCS Piping

- ☒ Pressure Testing
☐ Temporary FML Installation/Repair
☐ Stormwater Channels/Structures
☐ Other -

Contractor(s): ARG constructionSubcontractor(s): N/AVisitor(s): N/APhone Call(s): N/AAlteration(s): N/ADeliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 will excavate air & force main (22.4)
RW122R to RW22L on cap since forecast says
rain is imminent & complete
PRESSURE TEST 2" air, 4" dual contained, 2" force main
100psi, 60psi, 50psi PASS (4 hours)
1300 pressure TEST PASS
excavate air & dual contained line (22.4) from
114R to 107R; PRESSURE TEST in place PASS
complete 2" air & 2" x 4" dual contained connections
1600 leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Janet Todia 4/7/14

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Lorain II Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Janet Todia
Weather: sunny + 60's

Project No: 151.0001
Date: 4/9/14
Time Onsite: 0700
Time Offsite: 1830

Items Worked On:

- | | |
|---|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☒ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

Contractor(s): REG construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site: safety meeting
0730 excavate 2 further east horizontals
- north end point to high point
completed with horizontals short of their
high points due to active shale location
- installed 2 rock sumps + rock end
venton's plugs
- haul dirt to dress up area
- 1830 checked w/ Kostelnick about finish
work + scheduled Wellnet to survey
tomorrow - rig in active shale
1835 leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Signature of CQA Monitor

Date

Janet Todia 4/9/14



Daily Field Report

Name of Project/Site: Lorain II Phase I 2014Project No: 151.0001Project/Site Location: Oberlin, OHDate: 4/10/14CQA Monitor: Janet TodiaTime Onsite: 0700Weather: sunny + low 70s; windyTime Offsite: 1500

Items Worked On:



Gas Extraction Wells



Pressure Testing



Gas Extraction Well Abandonment



Temporary FML Installation/Repair



Waste Excavation/Relocation



Stormwater Channels/Structures

GCCS Piping



Other -

Contractor(s): REG construction, Willett EngineeringSubcontractor(s): N/AVisitor(s): N/APhone Call(s): N/AAlteration(s): N/ADeliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0745 excavate final part of 1st (east most)
horizontal to the Trench around pad
- excavate 3rd horizontal from rock end
point to high point
- 1100 call from Kostelnick to complete
current work + stop digging^{up} to wind
- call to stop excavation + completed @ 1105
notify Janet
- 1430 complete cover in trenches
- 1500 notify Kostelnick + Luis + leave site

Attachments:



Contractor Report



Field Notes



Other:

 4/10/14

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Korain II Phase I 2014
Project/Site Location: Akron, OH
CQA Monitor: James Todia
Weather: rain + wind 38°F

Project No: 151.0001
Date: 4/11/14
Time Onsite: 0700
Time Offsite: 1400

Items Worked On:

- | | |
|--|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☐ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☐ GCCS Piping | ☐ Other - |

RAIN DAY NO WORK

Contractor(s): ARB construction, Willett Engineering
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 will not excavate today due to
rain / mts potential
1000 weekly progress meeting w/ James
1130 survey air force main runs w/
Willett + horizontals
SCS named horizontally H19N, H20N, H21N
from east to west
1400 leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

James Todia 4/11/14
Signature of CQA Monitor Date



Daily Field Report

Name of Project/Site:

Lorain II Phase I 2014

Project No:

151.0001

Project/Site Location:

Oberlin, OH

Date:

4/12/14

CQA Monitor:

Janet Todia

Time Onsite:

0900

Weather:

sunny & 65°F

Time Offsite:

1400

Items Worked On:



Gas Extraction Wells



Pressure Testing



Gas Extraction Well Abandonment



Temporary FML Installation/Repair



Waste Excavation/Relocation



Stormwater Channels/Structures



GCCS Piping



Other -

Contractor(s):

ARG construction

Subcontractor(s):

N/A

Visitor(s):

N/A

Phone Call(s):

N/A

Alteration(s):

N/A

Deliveries:

N/A

Summary of Work:

0900 rec'd call from Ryan of ARG they want to do road xing to RW313R (2,2,0)
1015 arrive on site; no truck in road xing due to drainage
1130 told Ryan to haul loads & take down to H19+H21 for finish work & cover install (2,2,0) in trench from RW314R @ elev up to RW313R w/ 12" CMP
1400 leave site after completion & dress up work

Attachments:



Contractor Report



Field Notes



Other:

Signature of CQA Monitor

Date

Janet Todia 4/12/14



Daily Field Report

Name of Project/Site: <u>Locain II Phase 1 2014</u>		Project No: <u>151.0001</u>								
Project/Site Location: <u>Oberlin, OH</u>		Date: <u>4/14/14</u>								
CQA Monitor: <u>Janet Todia</u>		Time Onsite: <u>0700</u>								
Weather: <u>drizzle + wind 62°F</u>		Time Offsite: <u>1200</u>								
Items Worked On: <table border="0"><tr><td>☐ Gas Extraction Wells</td><td>☒ Pressure Testing</td></tr><tr><td>☐ Gas Extraction Well Abandonment</td><td>☐ Temporary FML Installation/Repair</td></tr><tr><td>☐ Waste Excavation/Relocation</td><td>☐ Stormwater Channels/Structures</td></tr><tr><td>☐ GCCS Piping</td><td>☐ Other -</td></tr></table> NO EXCAVATION TODAY			☐ Gas Extraction Wells	☒ Pressure Testing	☐ Gas Extraction Well Abandonment	☐ Temporary FML Installation/Repair	☐ Waste Excavation/Relocation	☐ Stormwater Channels/Structures	☐ GCCS Piping	☐ Other -
☐ Gas Extraction Wells	☒ Pressure Testing									
☐ Gas Extraction Well Abandonment	☐ Temporary FML Installation/Repair									
☐ Waste Excavation/Relocation	☐ Stormwater Channels/Structures									
☐ GCCS Piping	☐ Other -									
Contractor(s): <u>ARG Construction</u>										
Subcontractor(s): <u>N/A</u>										
Visitor(s): <u>N/A</u>										
Phone Call(s): <u>N/A</u>										
Alteration(s): <u>N/A</u>										
Deliveries: <u>N/A</u>										
Summary of Work: <u>0700 arrive on site; safety meeting</u> <u>NO EXCAVATION due to wind & rain coming in</u> <u>excavation on site</u> <u>0800 PRESSURE TEST (2.2.0) LSW314R to LSW313R</u> <u>in place</u> <u>1200 PRESSURE TEST PASS</u> <u>1200 leave site after confirmation of</u> <u>pressure test pass</u>										
Attachments: ☐ Contractor Report ☐ Field Notes ☐ Other:		<u>Janet Todia 4/14/14</u> Signature of CQA Monitor Date								



Daily Field Report

Name of Project/Site: Lorain II Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Tomer Todia
Weather: cold & snow 38°F

Project No: 151.0001
Date: 4/16/14
Time Onsite: 0700
Time Offsite: 1700

Items Worked On:

- ☐ Gas Extraction Wells
- ☐ Gas Extraction Well Abandonment
- ☐ Waste Excavation/Relocation
- ☒ GCCS Piping

- ☐ Pressure Testing
- ☐ Temporary FML Installation/Repair
- ☐ Stormwater Channels/Structures
- ☐ Other -

yesterday was
a mud
day

Contractor(s): AEG construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work: 0700 arrive on site; safety meeting
0730 will haul dirt to build trench for
12" header installation; pothole to locate
24" blind flange
0800 called Jager; cancel plans for 24"
header access riser since we already
have 24" access riser & riser on the 12" new
header
-continue trench building & planning
construction for the rest of the week
1700 leave site

Attachments:

- ☐ Contractor Report
- ☐ Field Notes
- ☐ Other:

Tomer Todia 4/16/14

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Corwin II Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Janet Todia
Weather: sunny + 68°F

Project No: 151.0001
Date: 4/17/14
Time Onsite: 0700
Time Offsite: 2130

Items Worked On:

- | | |
|--|--|
| ☐ Gas Extraction Wells | ☒ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☐ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

Contractor(s): REG construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 begin to remove ends of CMP so we
can pull pipe through road xing
1000 weekly progress meeting
1015 minor announced CMP is crushed @ main
haul road (approx 30'); will stay late +
replace CMP + lay road plates until concrete
can be delivered Monday @ 0600
notify Rich to call city working late tonight
approx 900 pm
completed crossing CMP only + road plates 0930pm
Bull 2" + 2 1/4" dual contained pressure test pass

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Signature of CQA Monitor

Date

Janet Todia 4/17/14



Daily Field Report

Name of Project/Site: Lolain II Phase I 2014Project No: 151.0001Project/Site Location: Berlin, OHDate: 4/18/14CQA Monitor: Janet TodiaTime Onsite: 0700Weather: sunny + 72°FTime Offsite: 1800

Items Worked On:

☐ Gas Extraction Wells☐ Pressure Testing☐ Gas Extraction Well Abandonment☐ Temporary FML Installation/Repair☐ Waste Excavation/Relocation☐ Stormwater Channels/Structures☒ GCCS Piping☐ Other -Contractor(s): ARG constructionSubcontractor(s): N/AVisitor(s): N/APhone Call(s): N/AAlteration(s): N/ADeliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 pull 24" 2' 2" x 4" dual coat flow
CMP repair @ road crossing
1315 install south flange of 24" isolation
valve north side of CMP culvert
1415 bolt flange on south end of 24"
connection w/ blind flange placed for
future alg test
1800 backfill complete + trash fence put
back; no notes @ 1800

Attachments:

☐ Contractor Report☐ Field Notes☐ Other:

Janet Todia 4/18/14
Signature of CQA Monitor Date



Daily Field Report

Name of Project/Site: Lorain II Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Jane Todia
Weather: Sunny + 51°F

Project No: 151.0001
Date: 4/19/14
Time Onsite: 0700
Time Offsite: 1300

Items Worked On:

- | | |
|--|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☐ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

Contractor(s): NPG Construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0715 clean up CMP & compacts & dress up
road xing area @ the 24"
0730 site operations brought water truck to
fill 24" pipe prior to cement placement so
grade is maintained by water weight;
approximately 4600 gallons used
1200 called Jeff Reis to state up road after
2 pm & thanks for water truck - cement to
arrive Monday @ 0600

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Jane Todia 4/19/14
Signature of CQA Monitor Date



Daily Field Report

Name of Project/Site: Lorain II Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Janet Todia
Weather: sunny + 75°F

Project No: 151-0001
Date: 4/21/14
Time Onsite: 0700
Time Offsite: 1800

Items Worked On:

- | | |
|---|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☒ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

Contractor(s): REG construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 begin excavation of 12" goth header
from the "V" configuration to the
west; concrete placed in CMP early this
morning prior to haul truck traffic
complete 12" 4" force main + 2" air line
w/ header isolation/guess rises 12" almost
to high point; 370' of completion from
V to the west
backfill & dress up in preparation for rain
completes
1800 stop equipment

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Janet Todia 4/21/14
Signature of CQA Monitor Date



Daily Field Report

Name of Project/Site: Lo/ia II Phase I 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Janet Todia
Weather: rain 51°F

Project No: 151-6001
Date: 4/22/14
Time Onsite: 0700
Time Offsite: 1800

Items Worked On:

- | | | | |
|-------------------------------------|---------------------------------|--------------------------|-----------------------------------|
| ☐ | Gas Extraction Wells | ☐ | Pressure Testing |
| ☐ | Gas Extraction Well Abandonment | ☐ | Temporary FML Installation/Repair |
| ☒ | Waste Excavation/Relocation | ☐ | Stormwater Channels/Structures |
| ☒ | GCCS Piping | ☐ | Other - |

Contractor(s): ARG construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 continue from 370' mark east header
accels rise - almost to high point
work on tie in points & "pups" all day
in the 12" header & minor performing
each work
1435 Riis called & asked minor to dress up
north slope
1800 hauled dirt & completed finish work -
will continue 24" foregrowth from isolation
valve to sump installation point

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Janet Todia 4/22/14
Signature of CQA Monitor Date

**Daily Field Report**

Name of Project/Site: Lorain II Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Janet Todia
Weather: overcast & cold; 48°F

Project No: 151.0001
Date: 4/23/14
Time Onsite: 0700
Time Offsite: 1800

Items Worked On:

- | | |
|--|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☐ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

Contractor(s): AEG construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 continue w/ 24" from 24" isolation
valve, 2" x 4", & 2"
0800 progress meeting w/ Republic;
added (2) 24" x 4" tees & (1) 24" x 12" tee for
leachate main extraction
1300 continue 24" to sump tie in point;
asked Republic if we could turn off
underdrain - OK
1800 site lost a phase - power outage
clean up lunch & leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Signature of CQA Monitor

Date

Janet Todia 4/23/14



Daily Field Report

Name of Project/Site: Lolain II Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Tamot Todia
Weather: Sunny + 60°F

Project No: 151.0001
Date: 4/24/14
Time Onsite: 0700
Time Offsite: 1800

Items Worked On:

- | | |
|--|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☐ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

RAIN DAY on 4/25/14

Contractor(s): NRG construction, Willett Engineering(sunny)
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
continue on 24" header run to termination
bring for 24" pressure test
well on site to survey all 12" rock
header, CW18, and 24" thru road crossing
to approximately 3+100
much progress on final dussing / dozer /
finish work
damaged 4" x 8" dual contained crushed
clean out riser - will remove & repair
1800 leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Tamot Todia 4/25/14

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Wolain II Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Tanet Todia
Weather: Sunny + 61°F

Project No: 151.0001
Date: 4/26/14
Time Onsite: 0700
Time Offsite: 1500

Items Worked On:

- | | |
|---|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☒ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

Contractor(s): NRG construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site: safety meeting
Saturday - work on horizontal 2, completion
that site haul road while today is
slow; got site permission to use
roller to rip/finish road
remove road plates from 24" header
road, closing & restore to normal
road conditions; horizontal 2 (named H20N
by SCS)
approved, ended hours by Republic's
1500 leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Tanet Todia 4/26/14
Signature of CQA Monitor Date



Daily Field Report

Name of Project/Site: Lorain II Phase 1 2014
Project/Site Location: Darling, OH
CQA Monitor: Benet Todio
Weather: overcast + cold 53°F

Project No: 151.0001
Date: 4/28/14
Time Onsite: 0700
Time Offsite: 1300

Items Worked On:

- | | |
|--|--|
| ☐ Gas Extraction Wells | ☒ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☐ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

FORECAST RAIN; no excavation in waste

Contractor(s): REG construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrived on site; safety meeting
0730 begin excavation of RW162 (12.2, 0) tie
into existing 4" force main + 2" air line
below grade
PRESSURE TEST air (2") + force main (2") PASS;
air @ 100 psi; force main @ 50 psi
no waste encountered in excavation
because it was shallow; backfill
completed @ 1130
short day due to rain / storms expected
1300 left site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Benet Todio 4/28/14
Signature of CQA Monitor Date



Daily Field Report

Name of Project/Site: Lorain Tr Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Janet Todia
Weather: Sunny + 51°F

Project No: 151.0001
Date: 5/5/14
Time Onsite: 0700
Time Offsite: 1800

Items Worked On:

- | | |
|---|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☒ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

Contractor(s): AEB construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 meet w/ Reis on lifts / fill section
call Jaquet; will not have horizontal 4
in 4th lift; will meet w/ Kofidnick
0800 excavate 6" lateral to BW304R (w
road xing)
1300 cross road; trench is 158' from 12" to
BW308R + 324' from BW308R to BW304R @
5.3% grade through crossing + crossing is
4' below grade to CMP 12" dia 16 gauge 12"
1800 leave site after backfill + finish
work

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Janet Todia 5/5/14

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Loislin II Phase 1 2014
Project/Site Location: Dublin, OH
CQA Monitor: Janez Todia
Weather: Sunny + 63°F

Project No: 151.0001
Date: 5/6/14
Time Onsite: 0700
Time Offsite: 1700

Items Worked On:

- ☐ Gas Extraction Wells
- ☐ Gas Extraction Well Abandonment
- ☒ Waste Excavation/Relocation
- ☒ GCCS Piping

- ☒ Pressure Testing
- ☐ Temporary FML Installation/Repair
- ☐ Stormwater Channels/Structures
- ☐ Other -

Contractor(s): ABG construction; JH Detest certifying engineers (TIM)
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 excavate air & force main mains
BW311 to BW307R + BW310 to BW304R
0800 PRESSURE TEST all vacuum laterals,
12" & 24" up to isolation valve @ 24" &
blanks
1200 PRESS. pickup test
installed air & force main (2.20) on both &
buried 4" laterals that were above grade
due to sewer water when installed
1700 leave site

Attachments:

- ☐ Contractor Report
- ☐ Field Notes
- ☐ Other:

Janez Todia 5/6/14
Signature of CQA Monitor Date



Daily Field Report

Name of Project/Site:	<u>Lorain II Phase I 2014</u>	Project No:	<u>151.0001</u>
Project/Site Location:	<u>Oberlin, OH</u>	Date:	<u>5/7/14</u>
CQA Monitor:	<u>Janet Todia</u>	Time Onsite:	<u>0700</u>
Weather:	<u>Sunny</u>	Time Offsite:	<u>1800</u>

Items Worked On:

- | | |
|--|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☐ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☐ GCCS Piping | ☐ Other - |

Contractor(s):	<u>AEC construction</u>
Subcontractor(s):	<u>N/A</u>
Visitor(s):	<u>N/A</u>
Phone Call(s):	<u>N/A</u>
Alteration(s):	<u>N/A</u>
Deliveries:	<u>N/A</u>

Summary of Work:

0700 arrive on site, safety meeting
0730 asked by Operations to raise the well
on north end of horizontal 2
excavate horizontal 3 from the 150' terminator
point south an additional 300' to
get out of the way of active phase
haul 7 loads of dirt; dump trash back
into trench leaving 18" of room for
soil cover
1800 leave site after repairing 2" underdrain
for D. Wright

Attachments:

- | |
|--|
| ☐ Contractor Report |
| ☐ Field Notes |
| ☐ Other: |

Janet Todia 5/7/14

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Lois II Phase I 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Jane Todia
Weather: Overcast 70°F

Project No: 151.0001
Date: 5/8/14
Time Onsite: 0700
Time Offsite: 1500

Items Worked On:

- | | |
|--|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☐ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

Contractor(s): ARG construction; Willett Engineering (survey)
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work: 0700 arrive on site; safety meeting
will repair 4" x 8" dual contained in 24" trench + put air force man on pressure test
- Willett here to survey north slope lines
- weekly progress meeting w/ Janet
- will focus on completion of horizontals first prior to tie in of 24"
- 4500 leave site after talking w/ Janet

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Jane Todia 5/8/14
Signature of CQA Monitor Date



Daily Field Report

Name of Project/Site: Lossin IV Phase 1 2014
Project/Site Location: Berlin, OH
CQA Monitor: Janet Todia
Weather: Overcast + 42°F

Project No: 151.0001
Date: 5/12/14
Time Onsite: 0700
Time Offsite: 1500

Items Worked On:

- | | |
|---|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☒ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

Contractor(s): REG construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 overcast & storms are coming; decision
made to continue horizontal 3" into the
"hump" midway before the rain
1100 stop excavating due to incoming
storms & start completion & cover of the
6" steel pipe @ high point
1500 storms; leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Janet Todia 5/12/14
Signature of CQA Monitor Date



Daily Field Report

Name of Project/Site: Kolman II Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Janet Todia
Weather: sunny + 70°F

Project No: 151.0001
Date: 5/19/14
Time Onsite: 0700
Time Offsite: 1400

Items Worked On:

- | | |
|---|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☒ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

Contractor(s): AEG Construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 safety meeting
0730 haul No. 4 sode + dirt for horizontals
1 + 2
haul + repair erosion rills all day
no excavation; just hauling sode + dirt
to horizontals; 1 + 2 + 3
1400 leave site; no need to CQA
hauling

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Janet Todia 5/19/14
Signature of CQA Monitor Date



Daily Field Repo..

Name of Project/Site:

Lolain II Phase 1 2014

Project No:

151.00081

Project/Site Location:

Berlin, OH

Date:

5/20/14

CQA Monitor:

Jana Tolia

Time Onsite:

0700

Weather:

overcast & drizzle 63°F

Time Offsite:

1800

Items Worked On:



Gas Extraction Wells



Pressure Testing



Gas Extraction Well Abandonment



Temporary FML Installation/Repair



Waste Excavation/Relocation



Stormwater Channels/Structures



GCCS Piping



Other -

Contractor(s):

NRG construction

Subcontractor(s):

N/A

Visitor(s):

N/A

Phone Call(s):

N/A

Alteration(s):

N/A

Deliveries:

N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 continue excavation of horizontal 3
through the "hump" to high point
continue excavation of horizontal 2 further
south along to operations / active phase
no longer
complete horizontal 2 to within 100' of
high point
1800 leave site

Attachments:



Contractor Report



Field Notes



Other:

Signature of CQA Monitor

Date

Jana Tolia 5/20/14



Daily Field Report

Name of Project/Site: Lorain TI Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Jenat Todia
Weather: Sunny + 74°F

Project No: 151.0001
Date: 5/21/14
Time Onsite: 0700
Time Offsite: 2200

Items Worked On:

- | | | | |
|-------------------------------------|---------------------------------|--------------------------|-----------------------------------|
| ☐ | Gas Extraction Wells | ☐ | Pressure Testing |
| ☐ | Gas Extraction Well Abandonment | ☐ | Temporary FML Installation/Repair |
| ☒ | Waste Excavation/Relocation | ☐ | Stormwater Channels/Structures |
| ☒ | GCCS Piping | ☐ | Other - |

Contractor(s): NRG Construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 continue horizontal 1 to the edge of the
haul road so we can cross the haul road
after hours done
1100 stop work on horizontal 1 & move to
horizontal 3 to continue to HZIS (completed
to within 100' of tie in point)
1730 begin road xing (haul road) horizontal
1
2200 complete road xing & leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Jenat Todia 5/21/14
Signature of CQA Monitor Date



Daily Field Report

Name of Project/Site:	<u>Larkin II Phase 1/2014</u>	Project No:	<u>151.0001</u>
Project/Site Location:	<u>Oberlin, OH</u>	Date:	<u>5/22/14</u>
CQA Monitor:	<u>Denat Todia</u>	Time Onsite:	<u>0700</u>
Weather:	<u>Sunny + 68°F</u>	Time Offsite:	<u>1800</u>

Items Worked On:

- | | |
|---|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☒ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

Contractor(s):	<u>REG construction</u>
Subcontractor(s):	<u>N/A</u>
Visitor(s):	<u>N/A</u>
Phone Call(s):	<u>N/A</u>
Alteration(s):	<u>N/A</u>
Deliveries:	<u>N/A</u>

Summary of Work:

0700 arrive on site; safety meeting
0730 continue horizontal 1 from road
x-ing to CS21
initial excavation of horizontal 4 (400'
run) from north to south end
point (H215)
completed 176' of horizontal 4 (half-way) +
completed horizontal 1 to the CS21 "pit"
where we stopped until removal of
CS21 is possible
1800 clean up + leave site

Attachments:

- | |
|--|
| ☐ Contractor Report |
| ☐ Field Notes |
| ☐ Other: |

Denat Todia 5/22/14

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Lorain H Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Janet Todia
Weather: Sunny + 78°F

Project No: 151.0001
Date: 5/23/14
Time Onsite: 0700
Time Offsite: 1800

Items Worked On:

- | | |
|---|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☒ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

Contractor(s): REG construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0800 weekly progress meeting; well not
work noticed weekend
0830 continue hospital & go completion
a tie in to 12" (new header)
dozer work + clean up of entire hospital
area
haul dirt + stone for anticipated completion
of hospital 2+3 on Tuesday
1800 leave site after clean up

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Signature of CQA Monitor

Date

Janet Todia 5/23/14



Daily Field Repo..

Name of Project/Site: Lorain II Phase 1 2014
Project/Site Location: Uberlin, OH
CQA Monitor: Imar Todio
Weather: sunny + 78°F

Project No: 151-0001
Date: 5/27/14
Time Onsite: 0700
Time Offsite: 1800

Items Worked On:



☒ Gas Extraction Wells
☐ Gas Extraction Well Abandonment
☒ Waste Excavation/Relocation
☒ GCCS Piping

☐ Pressure Testing
☐ Temporary FML Installation/Repair
☐ Stormwater Channels/Structures
☐ Other -

Contractor(s): ARC construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site, safety meeting
0730 will complete horizontals 2+3 today
0815 had 18 trucks thru the gate already;
extremely busy truck customer traffic
today
1500 horizontals 2+3 completed
- install pumps @ RW18, RW226, RW107R &
RW102R
1800 leave site due to rain/storms

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Imar Todio 5/27/14
Signature of CQA Monitor Date



Daily Field Report

Name of Project/Site:	<u>Lolain II Phase 1 2014</u>	Project No:	<u>151.0001</u>
Project/Site Location:	<u>Oberlin, OH</u>	Date:	<u>5/28/14</u>
CQA Monitor:	<u>Janet Todia</u>	Time Onsite:	<u>0700</u>
Weather:	<u>Overcast + 80°F humid</u>	Time Offsite:	<u>1300</u>

Items Worked On:

- | | |
|--|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☐ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☐ GCCS Piping | ☐ Other - |

Contractor(s): ARE construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work: 0700 arrive on site; safety meeting
0730 muck out 24" header trench due to
excessive rain + runoff
1300, 4 forms pending, clean up trench &
stop work / further excavation so trench
doesn't wash out again

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Janet Todia 5/28/14
Signature of CQA Monitor Date



Daily Field Repo.

Name of Project/Site: Loftain II Phase 1 2014Project No: 151.0001Project/Site Location: Oberlin, OHDate: 5/29/14CQA Monitor: Janet TodiaTime Onsite: 0700Weather: sunny + 70°FTime Offsite: 1900

Items Worked On:



Gas Extraction Wells



Pressure Testing



Gas Extraction Well Abandonment



Temporary FML Installation/Repair



Waste Excavation/Relocation



Stormwater Channels/Structures



GCCS Piping



Other -

Contractor(s): ARG constructionSubcontractor(s): N/AVisitor(s): N/APhone Call(s): N/AAlteration(s): N/ADeliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 regrade 24" header trench + continue
excavation toward the new sump
open excavation to 22.5'. Therefore
sump placement is 21.5' below grade
Jaques approved sand in place of
1/4" gravel; approved @ 1510
sump set @ 1600 from culvert outlet @
1% grade; inlet is 4.0'
1900 leave site after clean up + removal
of all items on "cap" for active phase

Attachments:



Contractor Report



Field Notes



Other:

Janet Todia 5/29/14

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Lorain II Phoe 1 2014
Project/Site Location: Obertin, OH
CQA Monitor: Janet Todia
Weather: sunny + 81°F

Project No: 151.0001
Date: 5/30/14
Time Onsite: 0700
Time Offsite: 1900

Items Worked On:

- | | |
|---|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☒ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

Contractor(s): APC construction; Willst Engineering
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site, safety meeting
0730 separate 148' end of 12" tie in
0945 Willst on site; survey horizontal, 2
new wells shales, 1 well reshored
1100 excavate 24x24" tie in on east side
broke air & force main tie in @ 24" x
24" flange; shut down plant accidentally
called 503 & 505 shut valves & we recovered
- tie in is 41' from main & 2" air line
1900 clean up & leave site; prepare for
tie in of BW312 & sump removal 05-21
tomorrow

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Signature of CQA Monitor

Date

Janet Todia 5/30/14



Daily Field Repo..

Name of Project/Site:	<u>Lolain II Phase 1 2014</u>	Project No:	<u>151.0001</u>
Project/Site Location:	<u>Berlin, OH</u>	Date:	<u>5/31/14</u>
CQA Monitor:	<u>Venot Todia</u>	Time Onsite:	<u>0700</u>
Weather:	<u>Sunny + 82°F</u>	Time Offsite:	<u>1700</u>

Items Worked On:

☒ Gas Extraction Wells☐ Gas Extraction Well Abandonment☒ Waste Excavation/Relocation☒ GCCS Piping

Pressure Testing



Temporary FML Installation/Repair



Stormwater Channels/Structures



Other -

Extra hours today / Saturday

Contractor(s):

ARG construction

Subcontractor(s):

N/A

Visitor(s):

N/A

Phone Call(s):

N/A

Alteration(s):

N/A

Deliveries:

N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 upgrade CS-21 for removal; SCS is isolating the nozzle header
0800 while excavating CS-21 also work on tie in for 16" lateral @ RW312
1030 asked Dargatz to cap 18" @ 24" x 24" tie in; did not expect pump operation due to safety + need for punch notes which we didn't have
1400 brought plant back on line after tie ins
1700 pull pump from CS-21; clean up & leave for the day

Attachments:



Contractor Report



Field Notes



Other:

Venot Todia 5/31/14
Signature of CQA Monitor Date



Daily Field Report

Name of Project/Site: Lolain II phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Tenet Todia
Weather: Overcast, rain 80°F

Project No: 151.0001
Date: 6/2/14
Time Onsite: 0700
Time Offsite: 1800

Items Worked On:

- ☒ Gas Extraction Wells
☐ Gas Extraction Well Abandonment
☐ Waste Excavation/Relocation
☒ GCCS Piping

- ☒ Pressure Testing
☐ Temporary FML Installation/Repair
☐ Stormwater Channels/Structures
☐ Other -

Contractor(s): ARC construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 begin tie in of RW311 6" lateral
1000 begin tie in of RW310 6" lateral
C/O dumping OS-21 into 3 pipes so it could be
disposed of in active pond
install pumps in wells 306R, 307R, 314R +
313R + 313R 91
PRESSURE TEST 25 psi 6" 16" PASS
completed tie ins of all north slope wells
except for remote wells RW310 + RW311
1800 call SCG + leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Tenet Todia 6/2/14
Signature of CQA Monitor Date



Daily Field Repo..

Name of Project/Site: LCI in TC Phase I 2014Project No: 151.0001Project/Site Location: Oberlin, OHDate: 4/3/14CQA Monitor: Janet TodiaTime Onsite: 0700Weather: sunny + 83°FTime Offsite: 1800

Items Worked On:



Gas Extraction Wells



Pressure Testing



Gas Extraction Well Abandonment



Temporary FML Installation/Repair



Waste Excavation/Relocation



Stormwater Channels/Structures



GCCS Piping



Other -

Completion of all north tie ins; everything on lineContractor(s): AKG constructionSubcontractor(s): N/AVisitor(s): N/APhone Call(s): N/AAlteration(s): N/ADeliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 begin excavation of remote laterals
RW310 + RW311
0800 initiate excavation of horizontal 1 to
the tie in point from the south side of
the main haul road
1400 complete tie in of horizontal 1; called
excavations to bring in compaction for the
pit
1800 complete clean up work + all tie ins;
will be surveyed tomorrow

Attachments:



Contractor Report



Field Notes



Other:

Janet Todia 4/3/14

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Lolain II Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Janet Todia
Weather: overcast - 74°F

Project No: 151.0001
Date: 6/4/14
Time Onsite: 0700
Time Offsite: 1700

Items Worked On:

- | | |
|--|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☐ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

Contractor(s): ARG construction; Willco Engineering
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 build berms to keep rain from 24" trench
- flush pipe on road side by 90 impounding
storms so as not to leave the trench
open to water in
Willco on site to
1100 rep'd call from Chris on trench & leak
in old line from previous construction
events
1500 completed repair & dressed up slopes

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Signature of CQA Monitor

Date

Janet Todia 6/4/14



Daily Field Repo..

Name of Project/Site:	<u>Holdin II Phase 1 2014</u>	Project No:	<u>151.0001</u>
Project/Site Location:	<u>Oberlin, OH</u>	Date:	<u>4/5/14</u>
CQA Monitor:	<u>Janet Todia</u>	Time Onsite:	<u>0700</u>
Weather:	<u>Sunny & 81°F</u>	Time Offsite:	<u>1800</u>

Items Worked On:

- | | |
|--|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☐ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

Contractor(s): ARG construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730, continue excavation of 24" line from
12' invert @ 9' @ 1000
1000 call from operations; visit from
Blawie; discussions of haul road availability
ARG will haul & face pit to keep the road
available; approved by Janet as additional
cost
1800 place caution tape

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Janet Todia 4/5/14

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Lorwin Phase 1 2014

Project No: 151.0001

Project/Site Location: Oberlin, OH

Date: 4/7/14

CQA Monitor: Janet Todia

Time Onsite: 0700

Weather: Sunny + 79°F

Time Offsite: 1500

Items Worked On:

- ☐ Gas Extraction Wells
- ☐ Gas Extraction Well Abandonment
- ☐ Waste Excavation/Relocation
- ☒ GCCS Piping

- ☒ Pressure Testing
- ☐ Temporary FML Installation/Repair
- ☐ Stormwater Channels/Structures
- ☐ Other -

Contractor(s): AEG construction

Subcontractor(s): N/A

Visitor(s): N/A

Phone Call(s): N/A

Alteration(s): N/A

Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 compact 24" trench; install risers to
leachate connections
repair/earth work for leachate line
repair
PRESSURE TEST 24" from sump to north
blind flange PASS
haul dirt to landfill for capping
Will not work here Monday to survey
24" before compacting
1500 leave site

Attachments:

- ☐ Contractor Report
- ☐ Field Notes
- ☐ Other:

Janet Todia 4/7/14

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Lolanta Phase 1 2014Project No: 151.0001Project/Site Location: Obelina, OHDate: 6/9/14CQA Monitor: Janet TodiaTime Onsite: 0700Weather: Sunny + 73°FTime Offsite: 1400

Items Worked On:

- | | |
|--|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☐ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

Contractor(s): AEG Construction; Wellst EngineeringSubcontractor(s): N/AVisitor(s): N/APhone Call(s): N/AAlteration(s): N/ADeliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0845 survey 24" pipeline, 4x8 dual
contained ~ 2" air w/ Wellst
0925 continue drying + compaction of
trench; not enough sun to dry the soil,
1130 will attempt compaction test if fails,
try again tomorrow
1400 decided compaction could not be achieved
today due to moisture

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Janet Todia 6/9/14

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Lorain II Phase 1 2014
Project/Site Location: Obelina, OH
CQA Monitor: Janet Todia
Weather: Overcast + 78°F

Project No: 151.0001
Date: 4/10/14
Time Onsite: 0700
Time Offsite: 1830

Items Worked On:

- | | |
|--|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☐ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☐ GCCS Piping | ☐ Other - |

COMPACTION ONLY

Contractor(s): AEG construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site safely meeting
1100 compaction 90% w/ weaver Boos
lift #1 of 24" trench north of sump
1245 compaction 90% w/ weaver Boos
lift #2 of 24" trench north of sump
1400 compaction 90% w/ weaver Boos
lift #3 of 24" trench north of sump
1750 compaction of 24" trench w/
weaver Boos lift #4 of 24" trench
north of sump
ALL compaction 90% pass 90%.
1830 leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Janet Todia 4/10/14
Signature of CQA Monitor Date



Daily Field Report

Name of Project/Site: 10/21/14 II Phase I 2014
Project/Site Location: Berlin, OH
CQA Monitor: Janet Todio
Weather: overcast + 78°F

Project No: 151.0001
Date: 6/11/14
Time Onsite: 0700
Time Offsite: 1845

Items Worked On:

- | | |
|--|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☐ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☐ GCCS Piping | ☐ Other - |

COMPACTION ONLY

Contractor(s): MEB construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site, safety meeting
0715 compaction test w/ heavy boom
lift #5 of 24" trench north of sump
1300 compaction test w/ heavier boom
lift #6 of 24" trench north of sump
1400 compaction test w/ heavier boom
lift #7 of 24" trench north of sump
leachate tank kick off meeting w/
Nathan Jim Dupuis (TAM)
1845 leave site
ALL compaction test pass 90%.

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Janet Todio 6/11/14
Signature of CQA Monitor Date



Daily Field Report

Name of Project/Site: Lo/lin II Phase 1 2014

Project No: 151.0001

Project/Site Location: Oberlin, OH

Date: 6/12/14

CQA Monitor: Janet Todis

Time Onsite: 8700

Weather: overcast + 80°F

Time Offsite: 1845

Items Worked On:

- ☐ Gas Extraction Wells
- ☐ Gas Extraction Well Abandonment
- ☐ Waste Excavation/Relocation
- ☐ GCCS Piping

- ☐ Pressure Testing
- ☐ Temporary FML Installation/Repair
- ☐ Stormwater Channels/Structures
- ☐ Other -

COMPACTION ONLY

Contractor(s): ABC construction

Subcontractor(s): N/A

Visitor(s): N/A

Phone Call(s): N/A

Alteration(s): N/A

Deliveries: N/A

Summary of Work: 0700 arrive on site; safety meeting
0730 continue compaction of 24" header
trench
test (2) 12" lifts south of sump to 90%
compaction; PASS
all of compaction completed on 24"
header trench; passed every test
>90%
haul dirt for backfilling for drilling wells;
finish work on 24" trench prepare for
cover
1845 leave site

Attachments:

- ☐ Contractor Report
- ☐ Field Notes
- ☐ Other:

Janet Todis 6/12/14

Signature of CQA Monitor

Date



Daily Field Repo.

Name of Project/Site: Ko/xia II Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Jaime Todia
Weather: overcast; light rain 80°F

Project No: 151.0001
Date: 6/13/14
Time Onsite: 0700
Time Offsite: 1700

Items Worked On:

- | | |
|--|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☐ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

Contractor(s): REG construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 initiate final dress up work on 24"
header trench for final finish work by
Beaver
fabricate risers to tie in leachate clean
outs to the 24" header
SCS opened 24" valve & started new
sump pump operation; sump is
dewatering
1700 haul dirt for drier benches; clean
up & leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Jaime Todia 6/13/14
Signature of CQA Monitor Date



Daily Field Report

Name of Project/Site: Lorain II Phase 1 2014
Project/Site Location: Aberlin, OH
CQA Monitor: Janet Todia
Weather: Sunny + 72°F

Project No: 151.0001
Date: 6/14/14
Time Onsite: 0700
Time Offsite: 1400

Items Worked On:

- | | |
|--|--|
| ☒ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☐ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

Contractor(s): AEG construction, AEG drilling
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work: 0700 arrive on site. safety meeting
0725 drill BW96R
0730 repair approximately 30' of horizontal 3
(H21) that was damaged by operations
1000 complete bore BW96R; complete repair of
horizontal 3
1100 clean up + fabricate wells for next
week drilling
1400 leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Signature of CQA Monitor

Date

Janet Todia 6/14/14



Daily Field Report

Name of Project/Site: Lorain II Phase 1 2014

Project No: 151.0001

Project/Site Location: Oberlin, OH

Date: 4/16/14

CQA Monitor: Janet Todia

Time Onsite: 0700

Weather: sunny + 81°F

Time Offsite: 1700

Items Worked On:



Gas Extraction Wells



Gas Extraction Well Abandonment



Waste Excavation/Relocation



GCCS Piping



Pressure Testing



Temporary FML Installation/Repair



Stormwater Channels/Structures



Other -

Contractor(s): AEG Construction; AEG Drilling

Subcontractor(s): N/A

Visitor(s): N/A

Phone Call(s): N/A

Alteration(s): N/A

Deliveries: N/A

Summary of Work:

0700 arrive on site safety meeting
0730 drill BW118R; begin excavation of air +
force main from isolation valves to BW3R2
(dual contained, above lines)
will abandon BW118 & BW118S & replace w/
one well BW118R2
BW128R2 to isolation valves (dual contained only)
BW128R2 to BW43R2 to BW58R2 & BW43R2 to
BW57R3 2" force main only (Not dual contained)
at well BW118R @ 8" due to sludge
1700 clean up complete BW118R & leave site

Attachments:



Contractor Report



Field Notes



Other:

Janet Todia 4/16/14

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Lorain II Phase 1 2014

Project No: 151.0001

Project/Site Location: Oberlin, OH

Date: 6/17/14

CQA Monitor: Jonet Todia

Time Onsite: 0700

Weather: Overcast + 89°F muggy

Time Offsite: 1800

Items Worked On:

- ☒ Gas Extraction Wells
- ☐ Gas Extraction Well Abandonment
- ☒ Waste Excavation/Relocation
- ☒ GCCS Piping

- ☒ Pressure Testing
- ☐ Temporary FML Installation/Repair
- ☐ Stormwater Channels/Structures
- ☐ Other -

Contractor(s): AEG construction, AEG drilling

Subcontractor(s): N/A

Visitor(s): N/A

Phone Call(s): N/A

Alteration(s): N/A

Deliveries: N/A

Summary of Work: 0700 arrive on site; safety meeting
0730 start drilling RW116R2; complete air +
force main lines RW13R2 to isolation
valves to RW12R2 to RW03K2 to RW58R2
to RW57R3 + PRESSURE TEST
- PRESSURE TEST, pass (in place)
completed RW116R2 to scheduled depth of
113'
repair leveler on drill rig at RW
hours
1800 leave site

Attachments:

- ☐ Contractor Report
- ☐ Field Notes
- ☐ Other:

Signature of CQA Monitor

Date

Jonet Todia 6/17/14



Daily Field Report

Name of Project/Site: Lafayette II Phase 1 2014Project No: 151.0001Project/Site Location: Oberlin, OHDate: 4/18/14CQA Monitor: Tony TodioTime Onsite: 0700Weather: overcast, muggy, 90°F light rainTime Offsite: 1700

Items Worked On:



Gas Extraction Wells



Gas Extraction Well Abandonment



Waste Excavation/Relocation



GCCS Piping



Pressure Testing



Temporary FML Installation/Repair



Stormwater Channels/Structures



Other -

Contractor(s): ARG construction, ARG drillingSubcontractor(s): N/AVisitor(s): N/APhone Call(s): N/AAlteration(s): N/ADeliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0745 begin drill BWHOR because it's a
short bore of 33' & rain is coming
0800 begin excavation of air/force main trench
BWH2R2 to BWH170 to BWH149 to stub up
tie in point
1200 PRESSURE TEST PASS BWH2R2 to BWH170 &
BWH149 to tie in point rise left by SES
1400 rain falling; won't operate anything
additional; keep operating air & force
main
1700 clean up & leave site

Attachments:



Contractor Report



Field Notes



Other:

Tony Todio 4/18/14

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: holding Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Janet Todia
Weather: Sunny + 81°F

Project No: 151.0001
Date: 6/19/14
Time Onsite: 0700
Time Offsite: 1700

Items Worked On:

- ☐ Gas Extraction Wells
☐ Gas Extraction Well Abandonment
☒ Waste Excavation/Relocation
☒ GCCS Piping

- ☒ Pressure Testing
☐ Temporary FML Installation/Repair
☐ Stormwater Channels/Structures
☐ Other -

NO DRILLING TO DAY

Contractor(s): ARG construction; ARG drilling
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work: 0700 arrive on site; safety meeting
0730 excavate 6" lateral connection @
BW158R to BW154R2
lots of pressure + leachate retained in
excavation cavity @ BW158R
permission from Dugout to continue
digging to find what line could
be leaking; check w/ air + force
main valve isolation
rain ended the day early
1700 clean up + cover excavation w/
lin + tarp etc
PRESSURE TEST PASS 6" SDR17 BW158R to BW154R2

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Signature of CQA Monitor

Date

Janet Todia 6/19/14



Daily Field Report

Name of Project/Site: Lorain II Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Tony Todio
Weather: sunny + 83°F

Project No: 151.0001
Date: 6/20/14
Time Onsite: 0700
Time Offsite: 1700

Items Worked On:



☒ Gas Extraction Wells
☐ Gas Extraction Well Abandonment
☒ Waste Excavation/Relocation
☒ GCCS Piping

☐ Pressure Testing
☐ Temporary FML Installation/Repair
☐ Stormwater Channels/Structures
☐ Other -

Contractor(s): ARG construction; ARG drilling
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 drill BW153R2
complete up + force main run RW62R2
to BW170 to RW149 to shut up tie in
point left by SCS
1335 permission from permit to sit RW153R2
@ 110' on a 1640' schedule bore due to
mounting ash that could not be
excavated from the bore
1700 RAIN clean up + leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Signature of CQA Monitor

Date

Tony Todio 6/20/14



Daily Field Report

Name of Project/Site: Lorain II Phase I 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Jenat Todia
Weather: sunny + 83°F

Project No: 151.0001
Date: 6/23/14
Time Onsite: 0700
Time Offsite: 1800

Items Worked On:



☒ Gas Extraction Wells
☐ Gas Extraction Well Abandonment
☒ Waste Excavation/Relocation
☒ GCCS Piping

☐ Pressure Testing
☒ Temporary FML Installation/Repair
☐ Stormwater Channels/Structures
☐ Other -

Contractor(s): REG construction; REG drilling
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work: 0700 arrive on site; safety meeting
0730 sheet + pull test for root installation
for wells BW114R2, BW118R + BW96R
0745 drill BW32R2; continue excavation
@ BW158R to locate potentially impacted
leachate line; found 2" leachate force
main; will repair after excavation is
completed + safe for entry
drill BW323R
1800 clean up + leave site

Attachments:

☐ Contractor Report
☐ Field Notes
☐ Other:

Jenat Todia 6/23/14

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Lorain II phase 1 2014Project No: 151.0001Project/Site Location: Charlin, OHDate: 6/24/14CQA Monitor: Imet TodiaTime Onsite: 0700Weather: sunny + 80°FTime Offsite: 1800

Items Worked On:

- ☒ Gas Extraction Wells
☐ Gas Extraction Well Abandonment
☒ Waste Excavation/Relocation
☒ GCCS Piping

- ☒ Pressure Testing
☐ Temporary FML Installation/Repair
☐ Stormwater Channels/Structures
☐ Other -

Contractor(s): ARG construction, NRG drilling, Weller EngineeringSubcontractor(s): N/AVisitor(s): N/APhone Call(s): N/AAlteration(s): N/ADeliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 drill BW53R2
0730 run BW158R to BW154R2 (6" below
grade lateral) + 2" air + 2" force main
BW154R2 to BW153R2
POTABLE TEST, 150' of 2" air + 2" force main PASS
(aged 17 BW156R + BW49R4)
drilled BW53R2 to a depth of 120' or 121'
but due to IMT depth limit maxed @ 120'
fill in backfill around new wells BW116R2,
BW118R + BW49
1800 leave site after clean up

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Lorain II Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Janet Todis
Weather: overcast - 72°F

Project No: 157.0001
Date: 6/26/14
Time Onsite: 0700
Time Offsite: 1800

Items Worked On:



☒ Gas Extraction Wells
☒ Gas Extraction Well Abandonment
☒ Waste Excavation/Relocation
☒ GCCS Piping



☒ Pressure Testing
☒ Temporary FML Installation/Repair
☐ Stormwater Channels/Structures
☐ Other -

Contractor(s): ARG construction, ARG drilling
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work: 0700 arrive on site, safety meeting
0730 drill BW49R4
PRESSURE TEST 2" air & 2" force main for BW53R
to isolation valves & BW321 to BW528 PASS
excavate trench for 2" air & 2" force main
BW39R2 to BW41R
drill BW49R4 to a depth of 106' on a
14" pipe due to sludge
backfill & clean up & prepare for
 tomorrow - will drill BW156R tomorrow
1800 leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Janet Todis 6/26/14
Signature of CQA Monitor Date



Daily Field Report

Name of Project/Site: KOJA II Phase 1 2014Project No: 151.0001Project/Site Location: Oberlin, OHDate: 6/27/14CQA Monitor: Jenat TodiaTime Onsite: 0700Weather: sunny & 86°FTime Offsite: 1800

Items Worked On:

☒ Gas Extraction Wells☐ Gas Extraction Well Abandonment☒ Waste Excavation/Relocation☒ GCCS Piping☐ Pressure Testing☐ Temporary FML Installation/Repair☐ Stormwater Channels/Structures☐ Other -Contractor(s): ARG construction, ARG drilling, Wilbur EngineeringSubcontractor(s): N/AVisitor(s): Margaret Fisher (IRM)Phone Call(s): N/AAlteration(s): N/ADeliveries: N/A

Summary of Work: 0700 arrive on site; safety meeting
0730 drill RW315K
0800 begin excavation of trenches for air &
four main lines (road crossings)
RW317 to RW315K & RW323 & RW317 to
RW318 (H15N) to RW324
1400 drill RW315K to full scheduled bore
depth of 90'
continue trenching, laying 2" in trench
will complete road crossings & rest of
lines tomorrow
1800 leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Kolbin II Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Janet Todia
Weather: Sunny & 88°F

Project No: 151.0001
Date: 6/28/14
Time Onsite: 0700
Time Offsite: 1400

Items Worked On:

- | | |
|---|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☒ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☒ GCCS Piping | ☐ Other - |

Contractor(s): ARG construction, ARG drilling
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work: 0700 arrive on site; safety meeting
0730 drill BW301R
continue excavation of road crossings for
trenches BW317 to BW315R to BW323 &
BW317 to BW318 (H15N) to BW324
1100 drilled BW301R to full scheduled
bore depth of 77'
continue backfilling & install 12" CMP
(2 forty foot sticks each crossing)
1400 clean up & leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Signature of CQA Monitor

Date

Janet Todia 6/28/14



Daily Field Report

Name of Project/Site: Lot 12 II Phase 1 2014
Project/Site Location: Berlin, OH
CQA Monitor: Janet Todia
Weather: Humid + sunny 90°F

Project No: 151.0001
Date: 6/30/14
Time Onsite: 0700
Time Offsite: 1800

Items Worked On:



☒ Gas Extraction Wells
☒ Gas Extraction Well Abandonment
☒ Waste Excavation/Relocation
☒ GCCS Piping



☒ Pressure Testing
☐ Temporary FML Installation/Repair
☐ Stormwater Channels/Structures
☐ Other

NO DRILLING TODAY

Contractor(s): ARG drilling, ARG construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work: 0700 arrive on site; safety meeting
0730 Drill PW157R; cancelled - lack of No 4 done
separate air, force main + lateral from
PW156R to 12" header + PW494R to 12" header
PRESSURE TESTS on 16" laterals PW156R + PW494R
PRESSURE TEST 2" air + 2" force main on PW323
to PW315R to PW317 to PW318 (HISN) to PW324
PASSED
1400 rec'd No 4 done will drill tomorrow
1800 backfill + clean up; leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Janet Todia 6/30/14

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Lois II Phase 1 2014
Project/Site Location: Obelin, OH
CQA Monitor: Samir Tolia
Weather: sunny + 88°F

Project No: 151.0001
Date: 7/1/14
Time Onsite: 0700
Time Offsite: 1800

Items Worked On:



Gas Extraction Wells
Gas Extraction Well Abandonment
Waste Excavation/Relocation
GCCS Piping



Pressure Testing
Temporary FML Installation/Repair
Stormwater Channels/Structures
Other -

Contractor(s): ARG Drilling, ARG Construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work: 0700 arrive on site; safety meeting
0730 drill RW157R to scheduled depth
install pumps in RW49R4 & RW157R
lengthen test ports on 24" isolation valve @ road
crossing per SCS
boot installation RW96R & abandonment repair
RW96R & tie in for RW96R
tie in RW49R4 & RW157R & bring on line
w/ pump installation
1800 clean up, backfill & leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Samir Tolia 7/1/14
Signature of CQA Monitor Date



Daily Field Report

Name of Project/Site: Lorain II Phase I 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Janet Todia
Weather: Sunny 88°F

Project No: 151.0001
Date: 7/2/14
Time Onsite: 0700
Time Offsite: 1800

Items Worked On:



☒ Gas Extraction Wells
☒ Gas Extraction Well Abandonment
☒ Waste Excavation/Relocation
☒ GCCS Piping



☐ Pressure Testing
☒ Temporary FML Installation/Repair
☐ Stormwater Channels/Structures
☐ Other -

Contractor(s): ARG construction, ARG drilling
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 line repair & well abandonment &
fill ins BUL16R2, BUL18R, & BUL32R2 &
BUL53R2
notify SCs of isolation; plant off line/debate
0700 to 1800
drill BUL16R to scheduled bore depth
drill BUL52R3 to bore depth of 99' on a
139' bore due to sludge approved by
Janet
1800 clean up, backfill & leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Janet Todia 7/2/14
Signature of CQA Monitor Date



Daily Field Report

Name of Project/Site: Lo/ann IL Phase 1 2014Project No: 151-0001Project/Site Location: Oberlin, OHDate: 7/3/14CQA Monitor: Jenat TodiaTime Onsite: 0700Weather: sunny & 73°FTime Offsite: 1700

Items Worked On:



Gas Extraction Wells

Gas Extraction Well Abandonment

Waste Excavation/Relocation

GCCS Piping



Pressure Testing



Temporary FML Installation/Repair



Stormwater Channels/Structures



Other -

Contractor(s): ARG Construction, ARG DrillingSubcontractor(s): N/AVisitor(s): N/APhone Call(s): N/AAlteration(s): N/ADeliveries: N/A

Summary of Work:

0700 arrive on site, safety meeting
0730 tie in BW40R & abandon BW40
0750 drill BW57R3. BW57R3 abandon @ 41'
bore depth on 140' scheduled bore due to
encountering gas & not being able to drill
through. Will relocate well.
BW57R3 will have REMOTE lateral due to
grade issues due to very shallow 24" header
tie in, abandon or drop pump BW53R2
tie in BW167R & abandon BW167
1700 clean up, backfill & leave site

Attachments:



Contractor Report



Field Notes



Other:

Jenat Todia 7/3/14

Signature of CQA Monitor

Date

**Daily Field Report**

Name of Project/Site: Lorain II Phase 1 2014
Project/Site Location: Orillon, OH
CQA Monitor: Jane Todia
Weather: overcast / rain 76°F

Project No: 151.0001
Date: 7/7/14
Time Onsite: 0700
Time Offsite: 1200

Items Worked On:

- | | |
|--|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☐ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☐ GCCS Piping | ☐ Other - |

No construction or drilling; survey only

Contractor(s): AEG construction, AEG drilling, Willett Engineering
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

*0700 arrive on site; safety meeting
may call for a RAIN DAY
0800 weekly progress meeting; call today
off due to rain; no work present
0945, Willett on site; survey as built
to catch up on all construction
1200 leave site after completing
survey*

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Jane Todia 7/7/14

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: LO/air IL Phase 1 2014

Project No: 151.0001

Project/Site Location: Oshteta, OH

Date: 7/8/14

CQA Monitor: Tonat Tolia

Time Onsite: 0700

Weather: Overcast/T storms coming 77°F

Time Offsite: 1000

Items Worked On:



- ☒ Gas Extraction Wells
- ☒ Gas Extraction Well Abandonment
- ☒ Waste Excavation/Relocation
- ☒ GCCS Piping

- ☐ Pressure Testing
- ☐ Temporary FML Installation/Repair
- ☐ Stormwater Channels/Structures
- ☐ Other -

NO DRILLING TODAY

Contractor(s): ARG construction; ARG drilling

Subcontractor(s): N/A

Visitor(s): N/A

Phone Call(s): N/A

Alteration(s): N/A

Deliveries: N/A

Summary of Work: 0700 arrive on site; safety meeting
0730 call off drilling due to potential
T storms
0745 call SCG to isolate to tie in RW323R+
abandon RW323
complete tie in + abandonment of 323R
1000 leave site T storms; call Jaquet

Attachments:

- ☐ Contractor Report
- ☐ Field Notes
- ☐ Other:

Tonat Tolia 7/8/14

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Lorain II Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Janet Todia
Weather: Sunny + 77°F

Project No: 151.0001
Date: 7/9/14
Time Onsite: 0700
Time Offsite: 1830

Items Worked On:



Gas Extraction Wells



Gas Extraction Well Abandonment



Waste Excavation/Relocation



GCCS Piping



Pressure Testing



Temporary FML Installation/Repair



Stormwater Channels/Structures



Other -

Contractor(s): AEG construction; AEG drilling
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0730 drill TRW9R2
0745 excavate trenches BW157R + BW45R3 to
below vacuum
install (2) 4" remote laterals from vac
source for BW46R2 remote to BW157R +
bring on line & below vac @ BW45R3
operations requested clean up & extra soil/clay
in the rock sump area & proper drainage
of roadway which was pouring
1830 leave site after calling Kottarik
to confirm clean up work completed

Attachments:



Contractor Report



Field Notes



Other:

Signature of CQA Monitor

Date

Janet Todia 7/9/14



Daily Field Report

Name of Project/Site: Lolain II Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Janet Tedia
Weather: Sunny + 76°F

Project No: 151.0001
Date: 7/10/14
Time Onsite: 0700
Time Offsite: 1700

Items Worked On:



☒ Gas Extraction Wells
☒ Gas Extraction Well Abandonment
☒ Waste Excavation/Relocation
☒ GCCS Piping

☐ Pressure Testing
☐ Temporary FML Installation/Repair
☐ Stormwater Channels/Structures
☐ Other -

Contractor(s): ARE Construction, ARE drilling
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work: 0700 arriving on site & safety meeting
0730 isolate for fill in of BW301R &
abandonment of BW361
fill in BW323R + abandon BW323
fill in BW157R + abandon BW157; called
SCS for new isolation
drilled BW34R3 to scheduled blow
depth
hailed dirt - did final dozer work
on north slope per operations request
attempts to locate air force main BW38R
1700 leave site

Attachments:

☐ Contractor Report
☐ Field Notes
☐ Other:

Janet Tedia 7/10/14
Signature of CQA Monitor Date



Daily Field Report

Name of Project/Site: Wetland II Phase 12014Project No: 157.0001Project/Site Location: Oberlin, OHDate: 7/11/14CQA Monitor: Janet TodieTime Onsite: 0700Weather: Sunny + 83°FTime Offsite: 1700

Items Worked On:

☒ Gas Extraction Wells☒ Gas Extraction Well Abandonment☒ Waste Excavation/Relocation☒ GCCS Piping☐ Pressure Testing☐ Temporary FML Installation/Repair☐ Stormwater Channels/Structures☐ Other -Contractor(s): APG Construction, APG drilling *RPA on site*Subcontractor(s): N/AVisitor(s): N/APhone Call(s): N/AAlteration(s): N/ADeliveries: N/A

Summary of Work: 0700 arrive on site; safety meeting
0730 drill BW51R3
0745 isolate for tie ins + abandonments
TRW9R2 + RW34R3
TRW9R2 + RW34R3 successfully brought on line
abandon TRW9R + RW34R2
clean up + dozer work
check pump inventory + go through materials
needed for pump installations tomorrow
1700 leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Signature of CQA Monitor

Date

Janet Todie 7/11/14



Daily Field Report

Name of Project/Site: Lolzin II Phase 1 2014Project No: 151.0001Project/Site Location: Oberlin, OHDate: 7/12/14CQA Monitor: Janet TodiaTime Onsite: 0700Weather: Sunny + 85°FTime Offsite: 1400

Items Worked On:

- ☒ Gas Extraction Wells
☐ Gas Extraction Well Abandonment
☐ Waste Excavation/Relocation
☒ GCCS Piping

- ☐ Pressure Testing
☐ Temporary FML Installation/Repair
☐ Stormwater Channels/Structures
☐ Other -

NO DRILLING TODAYContractor(s): NEB constructionSubcontractor(s): N/AVisitor(s): N/APhone Call(s): N/AAlteration(s): N/ADeliveries: N/A

Summary of Work: 8700 arrive on site; safety meeting
0730 pump installations EW34K3, EW315R,
EW53R2, EW62R2, EW55R
1800 raise air + force main wells for EW315R
prior to pump installations
1200 call SC5 with pumps list for priming
wells w/ installed pumps back on
line
1400 after completion of backfill, dress up
work, + email leave site

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Signature of CQA Monitor

Date

Janet Todia 7/12/14



Daily Field Report

Name of Project/Site: <u>Levin II Phase 1 2014</u>		Project No: <u>151.0001</u>
Project/Site Location: <u>Oberlin, OH</u>		Date: <u>7/14/14</u>
CQA Monitor: <u>Janet Todia</u>		Time Onsite: <u>0700</u>
Weather: <u>Sunny + 80°F</u>		Time Offsite: <u>1800</u>
Items Worked On:		
☒ Gas Extraction Wells	☐ Pressure Testing	
☒ Gas Extraction Well Abandonment	☐ Temporary FML Installation/Repair	
☒ Waste Excavation/Relocation	☐ Stormwater Channels/Structures	
☒ GCCS Piping	☐ Other -	
Contractor(s): <u>ARB construction, ARB drilling</u>		
Subcontractor(s): <u>N/A</u>		
Visitor(s): <u>N/A</u>		
Phone Call(s): <u>N/A</u>		
Alteration(s): <u>N/A</u>		
Deliveries: <u>N/A</u>		
Summary of Work: <u>0700 arrive on site; safety meeting</u> <u>0730 drill well RW56R3 to scheduled boy depth</u> <u>0800 isolation + tie in for RW57R3; will pick</u> <u>up 6" lateral to make grade of 3".</u> <u>haul dirt for final clean up</u> <u>schedule well for survey tomorrow</u> <u>continue to haul & back fill for several</u> <u>hours; maintaining dust control</u> <u>1800 leave site</u>		
Attachments:		Signature of CQA Monitor: <u>Janet Todia</u> 7/14/14
☐ Contractor Report ☐ Field Notes ☐ Other:		



Daily Field Report

Name of Project/Site: Lolain IV Phase 1 2014Project No: 151.0001Project/Site Location: Dorlin, OHDate: 7/15/14CQA Monitor: Janet TodiaTime Onsite: 0700Weather: Sunny & 72°F

Time Offsite: _____

Items Worked On:

☒ ☒ ☒ ☒

Gas Extraction Wells

Gas Extraction Well Abandonment

Waste Excavation/Relocation

GCCS Piping

☐

Pressure Testing

☐

Temporary FML Installation/Repair

☐

Stormwater Channels/Structures

☐

Other -

Contractor(s): ARL construction, ARL drilling, Weller EngineeringSubcontractor(s): N/AVisitor(s): N/APhone Call(s): N/AAlteration(s): N/ADeliveries: N/A

Summary of Work:

0700 arrive on site; safety meeting
0800 SCS isolation of BLD56R3 for tie in,
abandonment & abandonment of air & fuel
main
sign off on drilling superwork; Drilling
Depositionization; ARL construction will
perform finish dozer work & attend walk
through tomorrow @ 0800

Attachments:

☐

Contractor Report

☐

Field Notes

☐

Other:

Signature of CQA Monitor

Date



Daily Field Report

Name of Project/Site: Loftain II Phase 1 2014
Project/Site Location: Oberlin, OH
CQA Monitor: Janet Todia
Weather: sunny + 79°F

Project No: 151.0001
Date: 7/16/14
Time Onsite: 0900
Time Offsite: 1400

Items Worked On:

- | | |
|--|--|
| ☐ Gas Extraction Wells | ☐ Pressure Testing |
| ☐ Gas Extraction Well Abandonment | ☐ Temporary FML Installation/Repair |
| ☐ Waste Excavation/Relocation | ☐ Stormwater Channels/Structures |
| ☐ GCCS Piping | ☐ Other - |

FINAL WALK THROUGH

Contractor(s): ARG construction
Subcontractor(s): N/A
Visitor(s): N/A
Phone Call(s): N/A
Alteration(s): N/A
Deliveries: N/A

Summary of Work:

0900 arrive on site
haul dirt to trenches for finish work which
will be done during final walk through
walk through PASSED. need to finish labeling
wells & Minor, will continue to complete
mess up work
reflector tape also added to wells
1400 leave site. Minor, will continue final
mess up work Saturday as agreed by
he and Janet

Attachments:

- ☐ Contractor Report
☐ Field Notes
☐ Other:

Janet Todia 7/16/14
Signature of CQA Monitor Date



APPENDIX B – Construction Photographs and Description Logs



APPENDIX C – Resumes for CQA Certifying Engineer and Monitors



Education

University of Cincinnati, BS
Civil Engineering, 1987

Professional Registrations / Affiliations

Licensed Professional
Engineer in Ohio, Kentucky,
Illinois, Michigan &
Pennsylvania

Ohio Voluntary Action
Program Certified
Professional

Years in the Industry

25

Areas of Expertise

Solid Waste Landfill Design,
Construction Quality
Assurance, Property
Assessment, Environmental
Compliance, Environmental
Investigations, Remedial
Design, Brownfield
Redevelopment,
Underground Storage Tank
Management,
Stormwater/Wastewater
Permitting

Summary of Qualifications

Mr. DeLaet is a licensed Professional Engineer with 25 years of experience in environmental consulting, specializing in landfill design, construction, closure, auditing, and compliance; remedial investigation and engineering design support to private industry, environmental attorneys, and potentially responsible parties (PRPs) pursuant to their CERCLA (Comprehensive Environmental Response, Compensation and Liability Act), RCRA (Resource Conservation Recovery Act), NPDES (National Pollutant Discharge Elimination System), and/or other state and federal regulatory compliance obligations. He also works closely with senior executives, legal counsel, and regulatory officials to develop and implement cost-effective and innovative remedial strategies to support business and/or property transactions.

Mr. DeLaet has also had responsibility as a technical resources leader, managing professional staff in multiple offices within the Midwest. He directed this multi-disciplined team of engineers, scientists, geologists, statisticians, field technicians, contractors, etc., on the implementation of cost-effective and sustainable solutions for environmental remediation; remediation system OM&M, and Brownfield redevelopment projects throughout the Midwest.

In addition to his technical and project management responsibilities, Mr. DeLaet serves as a Client Service Manager (CSM) for several national private sector clients with active manufacturing facilities and/or legacy sites with a wide range of environmental impairments. Mr. DeLaet acts as a "trusted strategic advisor" to his clients where he (and his team) formulated remedial strategies that align with the clients' business objectives.

Construction Quality Assurance (CQA)

Countywide Landfill Remediation Action, Republic Services, East Sparta, OH. Certifying Engineering during this USEPA-required project that created complete separation between an 88-acre remediation area and the remainder of the solid waste cells at the facility. This project was necessary due to an ongoing chemical reaction that is believed to be attributed to aluminum dross waste that the facility historically received. The project involved installation of 52 landfill gas wells and associated headers and laterals, relocation of site flares, installation of 24 acres of HPDE geomembrane, construction of two pump stations, and reconstruction/ upgrade of the facility's leachate system to isolate the 88-acre remediation area leachate from the solid waste cells leachate. To document this work, certified four separate CQA certification reports for submittal to various state and federal regulatory agencies.

Landfill Gas System Expansion at Countywide Landfill, Republic Services, East Sparta, OH.

Certifying Engineering during upgrade/expansion of the facility's landfill gas collection system. This project involved installation of additional gas extraction wells, header and later piping, and condensation sumps for the facility.



Jeff DELAET, PE

Principal Engineer

Leachate Collection and Storage System Upgrade at Countywide Landfill, Republic Services, East Sparta, OH. Certifying Engineer and Project manager during expansion of the facility's leachate collection system. This project was necessary to keep solid waste leachate from contracting to leachate suspect of containing aluminum dross byproducts. The project involved installation of a 500,000-gallon aboveground storage tank, multiple collection manholes, and associated header piping at the facility. Certified the CQA report for submittal to the Ohio EPA.

New Solid Waste Landfill Cell, Allied Waste Services, Carey, OH. Project Manager and Certifying Engineer for CQA related activities during construction of an approximately 9-acre horizontal expansion of a solid waste landfill. The project involved monitoring the contractor's quality control activities during installation of structural fill for the landfill cell's sub-base and perimeter berms, recompacted soil layer, 60-mil HDPE geomembrane component of the landfill liner system, and leachate collection. Performed the project under a very compressed schedule to meet an emergency need of the client. Responsible for managing the team of onsite field engineers that monitored installation of the landfill liner system and leachate control system. Also prepared the construction summary report that certified the new cell construction was in accordance with the design plans and technical specifications.

Vertical Expansion of Solid Waste Landfill, Allied Waste Services, Celina, OH. Project Manager and Certifying Engineer for CQA-related activities during construction of an approximately 8.5-acre vertical expansion of a solid waste landfill. The project involved monitoring the contractor's quality control activities during installation of structural fill for the landfill cell's sub-base and perimeter berms, recompacted soil layer, and leachate collection system. Responsible for managing onsite field engineers that monitored installation of the landfill liner system and leachate collection system. Also prepared the construction summary report that certified the new cell construction was in accordance with design plans and technical specifications.

Closure of Hazardous Waste Surface Impoundments, Cynthiana, KY. Project manager for performing CQA services during closure of two hazardous waste surface impoundments. Work involved in-place stabilization of sludge and contaminated soils and construction of a RCRA cover system over the stabilized impoundments.

Closure of Hazardous Waste Impoundment, Florence, KY. Project Manager for performing CQA services during closure of a hazardous waste surface impoundment. Project involved removal and disposal of contaminated soils and backfilling the impoundment with imported clean soil. Responsibilities included evaluating the limits of soil contamination, coordinating field services, and preparing the closure certification report.

Closure of Hazardous Waste Landfill, Toledo, OH. Project Engineer for performance of CQA monitoring services for closure of a hazardous waste landfill and installation of a leachate extraction system. This project included construction of a RCRA multi-layer cover of the landfill and installation of a leachate extraction system; e.g., extraction well, UST, and process control building. Generated a summary report to certify the multi-layer cover and installed leachate extraction system was in accordance with design plans and technical specifications.

Expansion of Solid Waste Landfill, Jackson, TN. Project Manager for performance of CQA services during installation of geosynthetic components for an approximately 10-acre solid waste landfill expansion. The project involved monitoring the contractor's quality control activities during installation of the 60-mil HDPE geomembrane components of the landfill liner system. Generated a summary report to certify the geomembrane installation was in accordance with the design plans and technical specifications.

Expansion of Solid Waste Landfill, Jackson, TN. Project Manager for performance of CQA services during installation of geosynthetic components for an approximately 3.5-acre industrial landfill expansion. The project involved monitoring the contractor's quality control activities during installation of the 60-mil HDPE geomembrane and geosynthetic leachate collection system components of the landfill liner system. Generated a summary report to certify the installations were in accordance with design plans and technical specifications.

Construction of Residual and Industrial Waste Landfills, KY and FL. Project manager for performing CQA services during construction of residual and industrial waste landfills and associated stormwater management systems; e.g., sedimentation basin, silt traps, etc. Responsibilities involved monitoring the contractor's quality control activities during



installation of the engineered clay liner, HDPE geomembrane, leachate collection system, and stormwater sedimentation basin. Due to regulatory deadlines and industrial facility operational constraints at one landfill in Kentucky, 24-hour construction services were necessary during different time periods of the project. Led the team during the continuous construction periods. At the conclusion of each of the construction projects, generated a summary report to certify the various engineered components of the landfill facility installation were in accordance with design plans and technical specifications.

Solid Waste Landfill Design

Fly Ash Landfill Remedial Design Support, KY. Project Manager for redesign of a new cell and alternative landfill leachate management structures to collect both leachate from the fly ash landfill and natural springs containing boron-laden groundwater. Responsibilities included development of construction drawings and general construction notes.

Design of Solid, Industrial, and Construction and Demolition Debris Landfills, OH, FL and NY. Project Engineer for development of design drawings, technical specifications, operations and maintenance (O&M) plans, surface water management plans, and local/state permits. Also conducted a fatal flaw analysis on two parcels of land identified as potential landfill construction sites. Responsible for site reconnaissance activities, preparation of a conceptual level landfill designs, and capital cost estimates.

Remedial Design and Permitting for Cover System of Waste Disposal Area, DE and NJ. Project Manager for coordination of remedial design and permitting efforts associated with construction a multi-layer cover system over a 7-acre waste disposal area within a manufacturing facility. Responsibilities included obtaining local, state, and federal permits; preparation of construction plans and technical specifications and a CQA plan.



Years in the Industry

15

Areas of Expertise

Solid Waste Management,
Landfill Gas Systems, Air
Compliance, Gas Control
and Collection System CQA,
Monthly EPA Reports for
active dross site landfills

Summary of Qualifications

Ms. Todia has more than 15 years of experience in the area of Landfill Gas Operations, Maintenance and Compliance. Ms. Todia is an expert in ensuring landfill gas and waste water systems remains in compliance with all federal, state and local laws and regulations. She has adequately performed routine system inspections and repairs on landfills. Her expertise lies in reviewing and understanding all permits governing landfills to ensure compliance has been achieved. She has also reviewed and approved industrial and special waste profiles against applicable rules and regulations to protect landfills and facility personnel.

Ms. Todia has proven success at maintaining relationships with landfill employees, consultants, vendors, customers generating industrial waste. As well as being the primary point of contact with the waste screening protection program and supporting outside sales teams with customer service. Ms. Todia is especially equipped to review all monitoring reports and environmental plans (SPCC, SWPPP, GHG, and Groundwater & Title V) and perform landfill environmental reviews/audits. She understands the intricate details of landfill gas systems and well field technology. She can drive functional plans within the operations group to execute against the business plan to achieve or exceed the business unit's budget and strategic plan to grow the business, and meet or exceed service objectives.

Ms. Todia's ability to define problems, collect/interpret data and draw valid conclusions has enabled her career advancement. An especially valuable asset is Ms. Todia's skill to interpret an extensive variety of technical instructions in mathematical or diagram form, deal with several abstracts and concrete variables.

Key Projects

Monthly Operating Reports for Landfill Dross Reaction Sites, Republic Services, Inc., Multiple Sites. Ms. Todia has assembled monthly reports on behalf of Republic Services for presentation to the State and Federal EPA on dross reaction chemistry and progress. She does this for the following landfills:

- **Leachate Compliance Sampling, Lorain I Landfill, Republic Services, Inc., Lorain, OH.** Ms. Todia has performed leachate sampling according the monthly Waste Water Treatment Plant system requirements per Direct Discharge Permits.
- **Lorain II Landfill, Republic Services, Inc., Lorain, Ohio CQA.** Ms. Todia has performed CQA functions and construction management for Gas Collection and Control System.

Cuyahoga Regional Sanitary Landfill, Nestle USA, Solon, OH. Project Manager for landfill gas services to supply a 3.8 megawatt power plant on site and a 72 mmbtu boiler system to Nestle USA. She managed the coordination of field operations with pipeline and compression skid construction activities for the startup of the Nestle Gas-to-Energy Project.

Hazel Road Landfill, Waste Management, Akron, OH. Project Manager for landfill gas field services. She assisted field technicians in trouble shooting potential landfill gas migration issues and pneumatic pump installation.



Hoffman Road Landfill, City of Toledo, Toledo, OH. Project Manager for landfill gas field services. She managed environmental compliance and reporting and assisted site technicians in small-scale construction repairs, installation of pneumatic pumps, potential site migration issues, and routine well field tuning. She was responsible for routine and non-routine construction budgets. SSM reports, semiannual Title V reports, and annual compliance certifications. She submitted variance requests/alternative timeline requests, and well decommissioning requests.

Lake County RDF, Waste Management, Chesterland, OH. Project Manager for small-scale construction repairs, submitted proposals for small-scale construction projects, and coordinated well field compliance with Environmental Specialists, Inc.

Oakland Heights Development Allied Waste Industries, Inc., Auburn Hills, MI. Project Manager for a landfill gas project that provides methane to the GM Lake Orion boiler system. She managed budget and non-routine activities and worked with Air Quality Specialists, Inc. to maintain environmental compliance.

Pine Tree Acres Landfill, Inc., Waste Management, Lenox Township, MI. Project Manager for well field technicians and aided in routine well field tuning to increase flow to the gas energy plant on site. She worked with Air Quality Specialists, Inc. to maintain environmental compliance.

Statewide Landfill, Waste Management, Canton, OH. Project Manager for well field technicians and aided in routine well field tuning, installation of pneumatic pumps, small scale construction repairs, and troubleshooting potential landfill gas migration issues.

Valley View Landfill, Republic Services, Sulpher, KY. Supervisor for well field technicians and managed routine and non-routine budgets. She was responsible for environmental compliance reporting.

Deercroft Recycling and Disposal Facility, Waste Management, Michigan City, IN. Supervised and prepared semiannual Title V reports, semiannual new source performance standards (NSPS) reports, and semiannual startup, shutdown, and malfunction (SSM) reports. She submitted variance requests/alternative timeline requests, Title V annual compliance certification, and well decommissioning requests and Deviation Occurrence Reports.

Hazel Road Landfill, Waste Management, Akron, OH. Project Manager for landfill gas field services. She assisted field technicians in trouble shooting potential landfill gas migration issues and pneumatic pump installation.

Hoffman Road Landfill, City of Toledo, Toledo, OH. Project Manager for landfill gas field services. She managed environmental compliance and reporting and assisted site technicians in small-scale construction repairs, installation of pneumatic pumps, potential site migration issues, and routine well field tuning. She was responsible for routine and non-routine construction budgets. SSM reports, semiannual Title V reports, and annual compliance certifications. She submitted variance requests/alternative timeline requests, and well decommissioning requests.

Lake County RDF, Waste Management, Chesterland, OH. Project Manager for small-scale construction repairs, submitted proposals for small-scale construction projects, and coordinated well field compliance with Environmental Specialists, Inc.

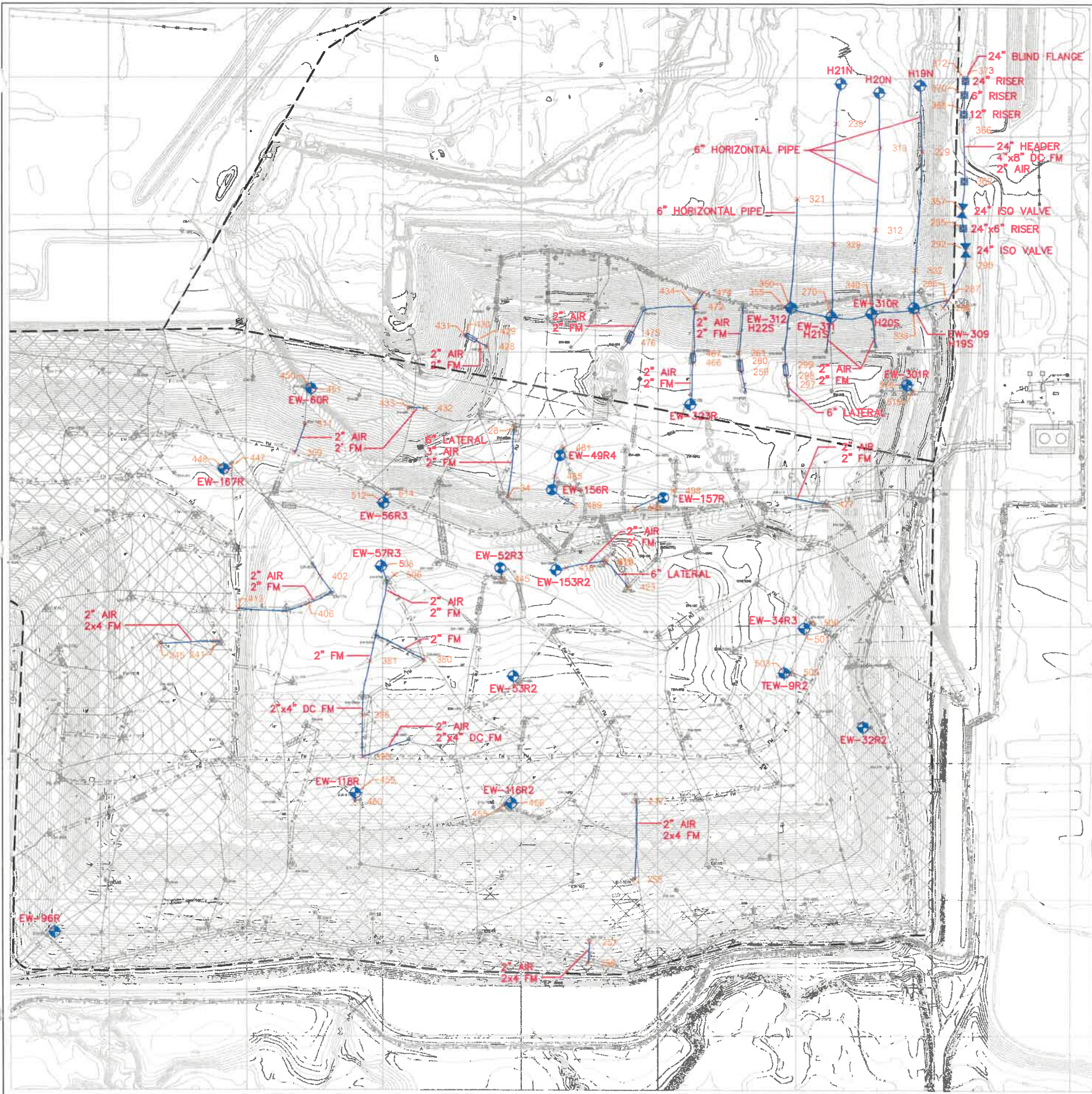
Oakland Heights Development, Allied Waste Industries, Inc., Auburn Hills, MI. Project Manager for a landfill gas project that provides methane to the GM Lake Orion boiler system. She managed budget and non-routine activities and worked with Air Quality Specialists, Inc. to maintain environmental compliance.

Pine Tree Acres Landfill, Inc., Waste Management, Lenox Township, MI. Project Manager for well field technicians and aided in routine well field tuning to increase flow to the gas energy plant on site. She worked with Air Quality Specialists, Inc. to maintain environmental compliance.

Statewide Landfill, Waste Management, Canton, OH. Project Manager for well field technicians and aided in routine well field tuning, installation of pneumatic pumps, small scale construction repairs, and troubleshooting potential landfill gas migration issues.



APPENDIX D – Project Record Drawings



Point Table				
Point #	Elevation	North	East	Description
28	872.11	567725.38	2058472.80	6IN 90 @ EW-50R3 T/PIPE
34	909.18	567475.15	2058490.47	6IN 90 @ EW-51R3 T/PIPE
229	0.00	568732.67	2059959.28	6IN HORIZONTAL
239	788.41	568833.44	2059641.28	6IN HORIZONTAL GS
241	854.80	568943.27	2057385.14	2IN AIR 2X4 F/M T/PIPE
245	877.88	569054.24	2057106.71	2IN AIR 2X4 F/M 90 GS
247	881.13	569360.39	2058920.24	2IN AIR 2X4 F/M 90 GS
255	832.65	569074.43	2059916.40	2IN AIR 2X4 F/M 90 GS
256	799.01	568786.73	2058744.88	2IN AIR 2IN X 4IN F/M T/PIPE
257	812.58	568943.27	2058751.20	2IN AIR 2IN X 4IN F/M GS
258	844.80	567930.28	2058301.22	12IN CMP T/PIPE
260	843.10	567969.85	2058297.08	12IN CMP T/PIPE
261	842.88	567668.57	2058291.73	2IN AIR 2IN F/M TEE RISER GS
270	806.55	568127.76	2058624.36	12IN X 12IN HDR TEE 2IN AIR TEE 4IN F/M TEE T/PIPE
288	796.87	568190.12	2060044.78	12IN HDR ISO VALVE T/PIPE
287	795.42	568191.26	2060058.82	24IN HDR TEE T/PIPE
288	801.33	568164.78	2060037.44	24IN HDR 2IN AIR 4IN F/M T/PIPE
290	787.53	568329.42	2060118.65	24IN HDR 4IN X 6IN (DC) F/M 2IN AIR T/PIPE
292	787.87	568373.95	2060118.29	24IN ISO VALVE T/PIPE
295	785.43	568453.50	2060109.33	24IN X 6IN RISER T/PIPE
297	858.88	567883.28	2059468.33	6IN LAT T/PIPE
298	852.40	567915.85	2059464.97	12IN CMP T/PIPE
299	848.25	567956.54	2059459.97	12IN CMP T/PIPE
309	869.13	567833.11	2057677.82	2IN AIR / 2IN FM TEE T/PIPE
311	847.51	567738.07	2057714.99	2IN AIR / 2IN FM 90 GS
312	0.00	568447.33	2059787.57	6IN HOR. LINE H20
313	793.47	568747.38	2059803.75	6IN HOR. LINE H20 GS
321	783.35	568560.18	2059501.08	6IN HOR. LINE H22 GS
329	798.23	568364.01	2059833.22	6IN HOR. LINE H21 GS
332	798.67	568301.55	2059834.88	6IN HOR. LINE H18 GS
338	800.25	568167.48	2059827.74	12IN X 6IN RISER T/PIPE
340	805.20	568138.84	2059777.67	12IN X 6IN RISER T/PIPE
350	801.37	568161.45	2059476.33	12IN X 6IN RISER GS
355	785.42	568167.38	2059458.27	12IN TEE-IN T/PIPE
357	784.84	568156.06	2060106.84	24IN ISO VALVE T/PIPE
362	788.48	568225.25	2060112.98	24IN X 12IN RISER GS
368	0.00	568888.01	2060110.52	12IN ISO RISER
370	0.00	568935.34	2060112.48	6IN RISER
372	780.74	568990.22	2060115.57	24IN RISER TEE T/PIPE
373	781.08	568999.50	2060115.81	24IN BLIND FLANGE T/PIPE
380	910.13	568878.88	2058149.33	2IN FM 90 GS
381	906.88	568872.57	2057953.41	2IN FM T/PIPE

LEGEND

PL ————— PROPERTY BOUNDARY

————— EXISTING SOLID WASTE CELL BOUNDARY

————— EXISTING 10' CONTOUR

————— EXISTING 2' CONTOUR

————— EXISTING LANDFILL GAS HEADER

————— EXISTING LANDFILL HORIZONTAL COLLECTOR

————— EXISTING FORCE MAIN

————— EXISTING AIRLINE

————— EXISTING COMMUNICATIONS CONDUIT

————— EXISTING AREA OF FINAL COVER PLACEMENT

EW-39R EXISTING LFG EXTRACTION WELL

EW-40R2 EXISTING COMBINATION WELL

H6 EXISTING REMOTE WELLHEAD

EW-39R EXISTING HORIZONTAL COLLECTOR

EW-39R EXISTING HORIZONTAL COLLECTOR SUMP

EW-39R EXISTING HEADER ACCESS RISER

EW-39R EXISTING CONTROL VALVE

EW-39R EXISTING BLIND FLANGE

EW-39R EXISTING FLANGE CONNECTION

EW-39R EXISTING CONDENSATE DRIPLEG

EW-39R EXISTING CONDENSATE SUMP STATION

EW-39R EXISTING SELF DRAINING CONDENSATE TRAP

EW-39R LANDFILL GAS HEADER/LATERAL

EW-39R ROAD CROSSING

EW-39R LFG WELL

EW-39R REMOTE WELLHEAD

EW-39R ISO VALVE

EW-39R RISER

EW-39R BLIND FLANGE

Point Table				
Point #	Elevation	North	East	Description
388	901.30	568675.01	2057828.13	2IN X 4IN DC FM T/PIPE
390	891.83	568521.42	2057928.54	2IN AIR TEE T/PIPE
402	907.21	567181.37	2057770.18	2IN AIR / 2IN FM T/PIPE
406	908.03	567081.16	2057724.52	2IN AIR T/PIPE
413	885.89	567084.24	2057488.45	2IN AIR TEE-IN T/PIPE
418	915.68	567212.84	2058665.01	2IN AIR / 2IN FM T/PIPE
419	915.43	567237.99	2058807.39	2IN AIR / 2IN FM 90 T/PIPE
420	916.11	567233.00	2058810.67	6IN 90 T/PIPE
423	912.15	567143.53	2058889.02	6IN 90 GS
427	882.49	567447.46	2059007.84	2IN AIR / 2IN FM TEE T/PIPE
428	825.31	568020.58	2058374.08	2IN AIR / 2IN FM T/PIPE
429	814.87	568043.09	2058354.59	12IN CMP T/PIPE
430	813.18	568061.49	2058299.68	12IN CMP T/PIPE
431	814.53	568064.04	2058291.75	2IN AIR / 2IN FM 90 GS
432	818.33	567765.71	2058101.83	2IN AIR / 2IN FM TEE T/PIPE
433	817.27	567767.19	2058095.89	2IN AIR / 2IN FM 90 T/PIPE
434	788.71	568168.40	2059130.18	2IN AIR / 2IN FM TEE T/PIPE
445	814.96	567172.90	2058429.86	EW-52R3 2IN AIR / 2IN FM T/PIPE
447	888.28	567877.03	2057444.04	6IN LAT T/PIPE
448	870.36	567570.08	2057420.52	6IN 90 T/PIPE
450	822.45	567873.28	2057727.80	6IN LAT T/PIPE
451	821.38	567885.87	2057734.72	6IN 90 T/PIPE
455	851.85	568343.85	2058436.80	6IN TEE T/PIPE
456	853.31	568354.36	2058462.65	6IN 90 T/PIPE
459	884.08	568386.18	2057897.83	6IN 90 T/PIPE
460	881.50	568357.88	2057898.80	6IN 90 T/PIPE
466	842.63	567962.78	2059127.26	12IN CMP T/PIPE
467	841.11	567996.49	2059126.68	12IN CMP T/PIPE
472	798.88	568167.21	2059134.87	2IN AIR / 2IN FM TEE T/PIPE
474	779.34	568216.98	2059183.72	2IN AIR / 2IN FM TEE T/PIPE
475	840.13	568072.35	2058805.42	12IN CMP T/PIPE
476	840.63	568035.72	2058890.24	12IN CMP T/PIPE
478	808.25	568555.16	2058772.81	6IN 90 T/PIPE
479	814.43	568570.05	2058802.43	6IN 90 T/PIPE
481	878.72	567851.90	2058854.38	2IN AIR 2IN FM T/PIPE
485	884.44	567547.37	2058621.50	2IN AIR 2IN FM 6IN LAT T/PIPE
489	908.87	567441.40	2058883.78	2IN AIR 2IN FM 6IN LAT T/PIPE
494	891.82	567432.16	2058914.20	6IN LAT T/PIPE
498	882.18	567485.61	2059054.35	2IN AIR 3IN FM 6IN LAT T/PIPE
500	869.71	567013.47	2059555.31	2IN AIR 2IN FM 6IN 90 T/PIPE
501	874.40	569996.24	2058532.88	2IN AIR 2IN FM 6IN 90 T/PIPE
503	851.80	568228.01	2058460.43	2IN AIR 2IN FM 6IN 90 T/PIPE
505	878.88	568329.67	2059483.00	2IN AIR 2IN FM 6IN 90 T/PIPE
508	813.89	567187.83	2058041.77	6IN 90 T/PIPE
508	816.28	567230.44	2057995.98	2IN AIR 2IN FM 6IN 90 T/PIPE
512	892.11	567451.87	2058000.30	2IN AIR 2IN FM 6IN 90 T/PIPE
514	885.40	567484.48	2058012.80	2IN AIR 2IN FM 6IN LAT T/PIPE
515	820.70	567859.72	2058926.99	6IN 90 T/PIPE
518	826.54	567878.94	2058908.57	6IN 90 T/PIPE

NOTES:

1. LFG EXTRACTION WELLS WERE ABANDONED IN PLACE BY THE FOLLOWING METHOD: EXCAVATED DOWN TO REFUSE, GEOSYNTHETIC COMPONENT OF FINAL COVER SYSTEM, OR A MAXIMUM OF 4 FEET, IF NEITHER WAS ENCOUNTERED. EXISTING WELL CASING WAS CUT OFF AND A PVC CAP WAS INSTALLED BY APPLYING A BEAD OF SILICONE SEALANT INSIDE THE CAP AND ATTACHED TO THE WELL CASING WITH 3 LAG SCREWS. ON-SITE SOIL BACKFILL WAS USED TO FILL IN AREA TO GROUND SURFACE.

2. THIS MAP HAS BEEN COMPILED BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY PERFORMED BY COOPER AERIAL SURVEYS CO. DATED JANUARY 9, 2013 AND FROM QUARTERLY AIRSPACE SURVEY PERFORMED BY THE WELLERT CORPORATION. VERTICAL DATUM BASED ON NGS MEAN SEA LEVEL. CONTOUR INTERVAL 2 FT. GRID BASED ON LOCAL COORDINATE SYSTEM.

PROJECT NO. REP000250 DATE 11/17/14

SCALE 1"=200' CAD FILE

DESIGNED BY DWG PATH

CHECKED BY JT DRAWN BY BF

DRAWING: RD-1

LANDFILL

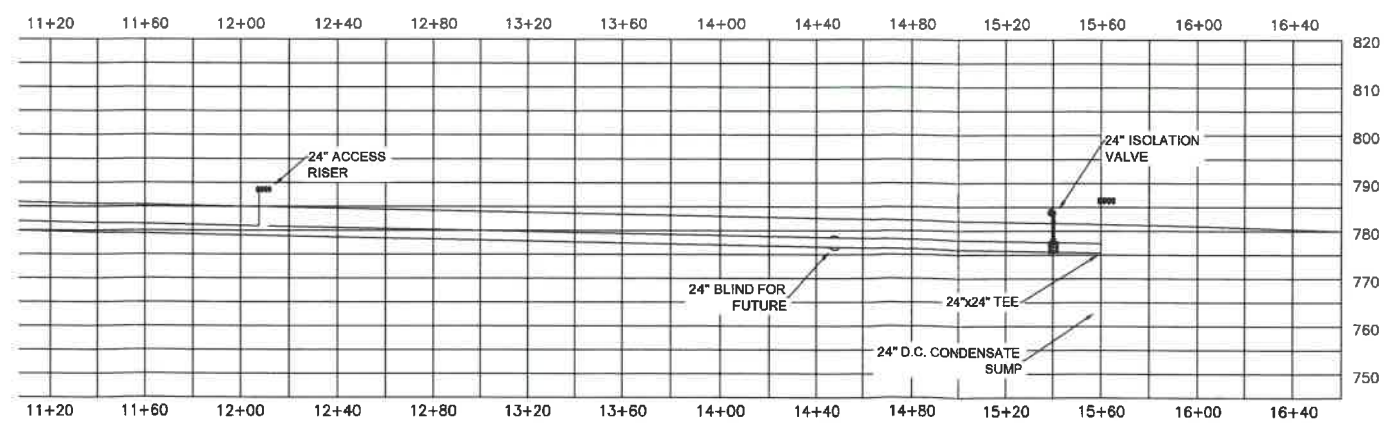
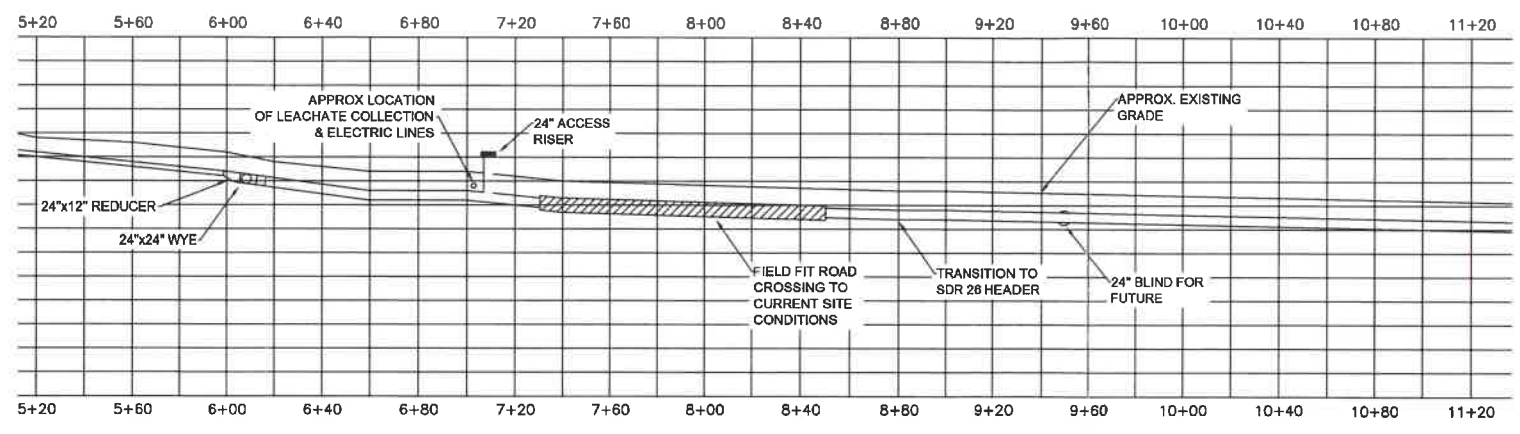
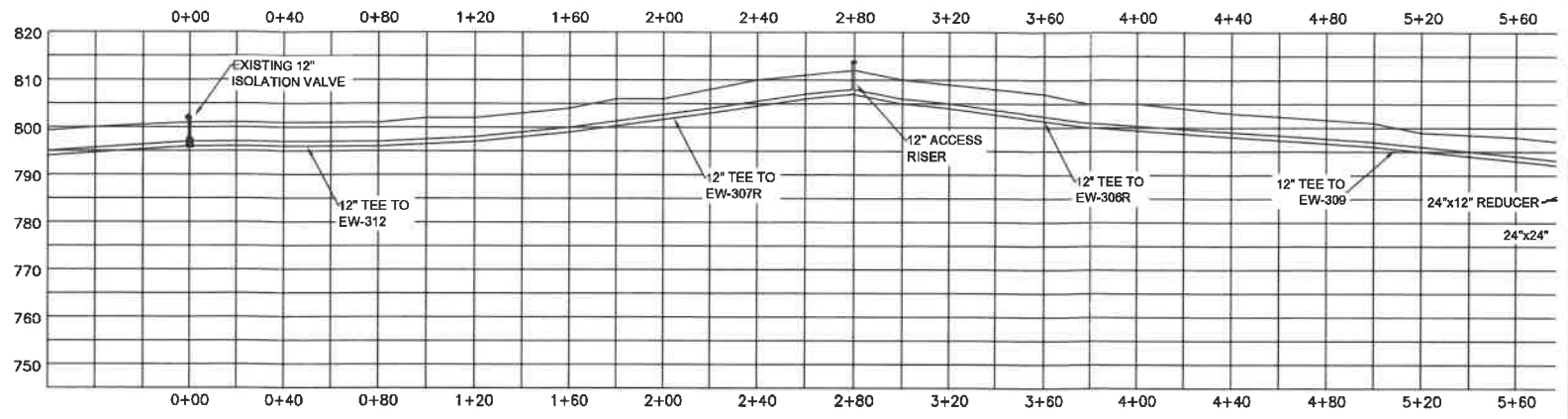
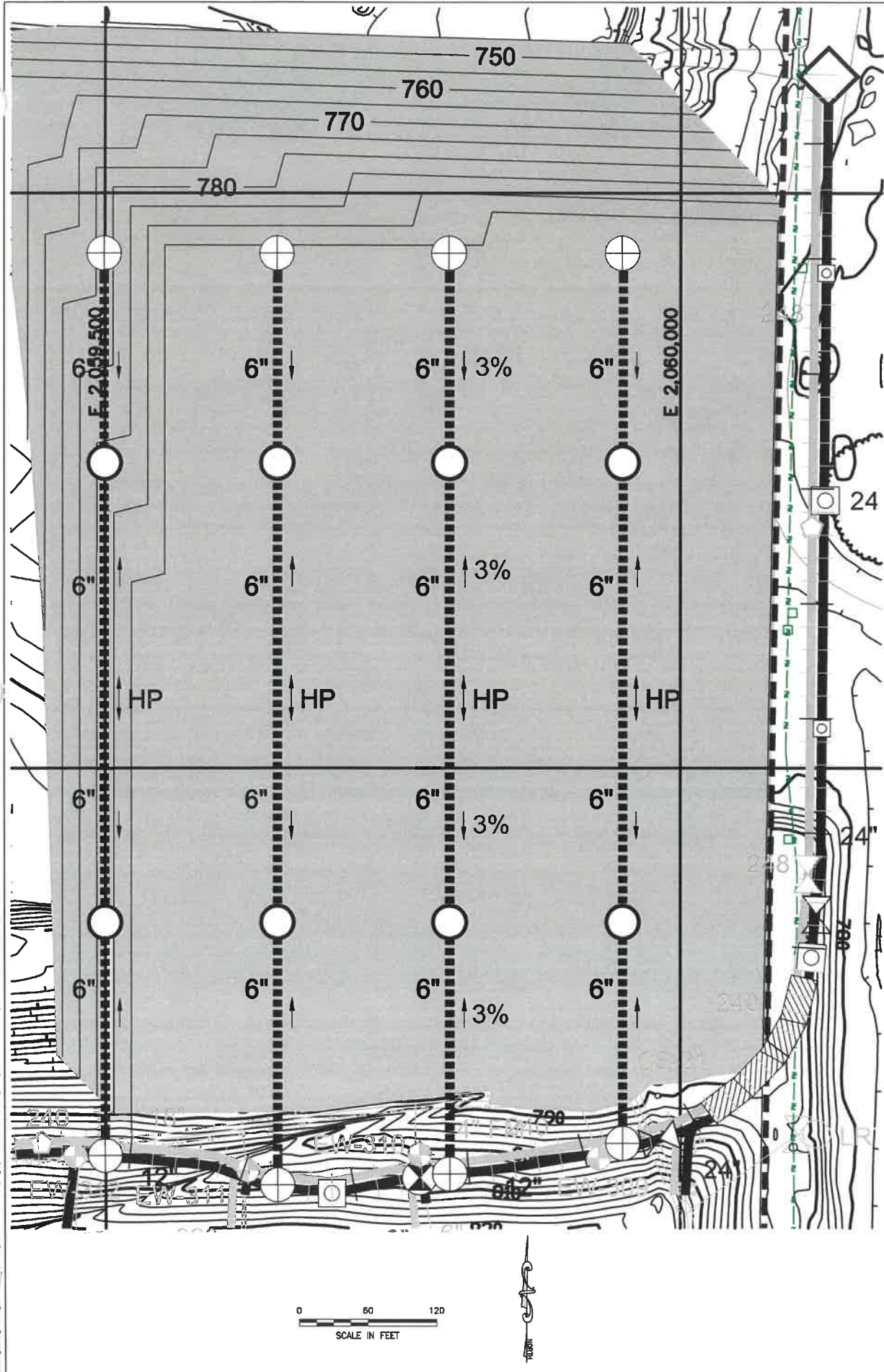
REPUBLIC SERVICES

2014 LFG SYSTEM - PHASE 2

RECORD DRAWINGS - PLAN VIEW

4575 LAKEHURST COURT
SUITE 250
COLUMBUS, OHIO 43016
TEL 614-339-3380
WWW.TANDMASSOCIATES.COM

COPYRIGHT 2014, T&M ASSOCIATES - ALL RIGHTS RESERVED. THE COPYING OR REUSE OF THIS DOCUMENT OR PORTIONS THEREOF FOR OTHER THAN THE ORIGINAL PROJECT OR THE PURPOSE ORIGINALLY INTENDED, WITHOUT THE WRITTEN PERMISSION OF T&M ASSOCIATES IS PROHIBITED.




 4675 LAKEHURST COURT
 SUITE 250
 COLUMBUS, OHIO 43016
 TEL 614-339-3380
 WWW.TANDMASSOCIATES.COM

COPYRIGHT 2014, TAM ASSOCIATES - ALL RIGHTS RESERVED. THE COPYING OR REUSE OF THIS DOCUMENT OR PORTIONS THEREOF, FOR OTHER THAN THE ORIGINAL, PRODUCT OR THE PURPOSE ORIGINALLY INTENDED, WITHOUT THE WRITTEN PERMISSION OF TAM ASSOCIATES IS PROHIBITED.

LORAIN COUNTY II LANDFILL



2014 LFG SYSTEM - PHASE 2
 RECORD DRAWINGS - HEADER PIPE PROFILE

NO.	DATE	REVISIONS	BY	CHECKED

PROJECT NO.	DATE
REP000250	11/17/14
SCALE	CADD FILE
1" = 60'	
DESIGNED BY	DWG PATH
CHECKED BY	DRAWN BY
JT	BF

DRAWING:
 RD-2

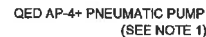
RD-5



PLAN VIEW



2
RD-6



3
RD-8

- PVC FORCEMAIN
ASSEMBLY QED
PART #40072

4
RD-6



5
RD-6



APPENDIX E – Landfill Gas Extraction Well Boring Logs

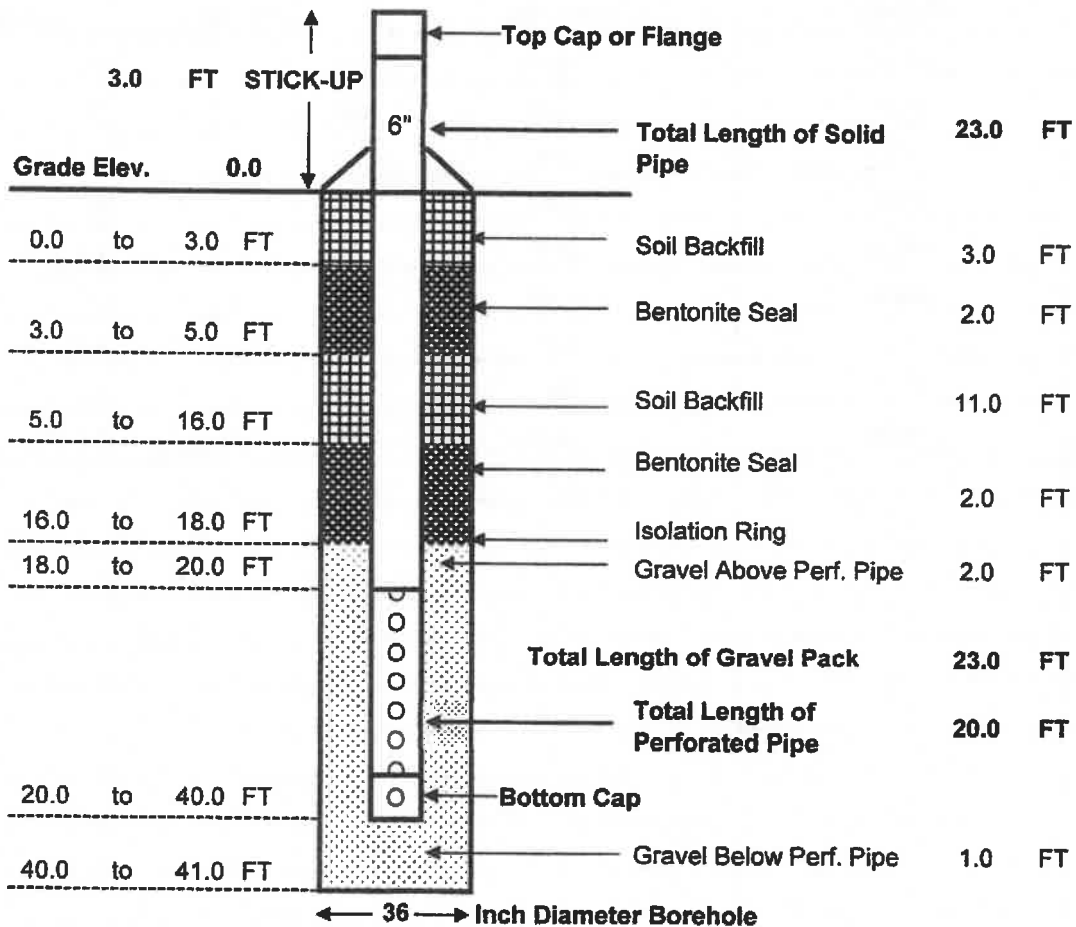
WELL INSTALLATION REPORT

Project Name: Lorain County Landfill
 Site Location: Oberlin, Ohio
 AEGL Project #: 214111
 Date Drilled: June 14, 2014
 Type of Casing: 6" SDR 11

Time in: 7:00
 Time out: 9:00
 Rig Hrs: 2
 Weather: sunny

WELL ID #: EW-96R

TOTAL WELL DEPTH: 41.0 FT



Time	O2	H2S	LEL/CO
7am	20.9	0.0	0.0
8am	20.9	0.0	0.0
9am	20.9	0.0	0.0
10am			
11am			
noon			
1pm			
2pm			
3pm			
4pm			
5pm			

NOTES:

The liner was 3' deep. We drilled and complete well.

CLIENT REP: [Signature]

SUPERVISOR: Billy Long

Americon Environmental Group, Ltd.
DRILLING LOG DATA

Project Name: Lorain County Landfill
AEGL Project #: 214111
Date Drilled: June 14, 2014

Well ID #: EW-96R
Total Depth: 41'
Supervisor: Billy Long

Drilling Depth	Type of Material	Degree of Composition	Amount of Moisture	Material Temperature
0-5	clay	none	dry	66
5-10	msw	mod	dry	78
10-15	msw	mod	dry	74
15-20	msw	mod	dry	67
20-25	msw	mod	dry	83
25-30	msw	mod	dry	85
30-35	msw	mod	dry	81
35-40	msw	mod	dry	80
40-41	msw	mod	dry	84
45-50				
50-55				
55-60				
60-65				
65-70				
70-75				
75-80				
80-85				
85-90				
90-95				
95-100				
100-105				
105-110				
110-115				
115-120				
120-125				
125-130				
130-135				
135-140				
140-145				
145-150				

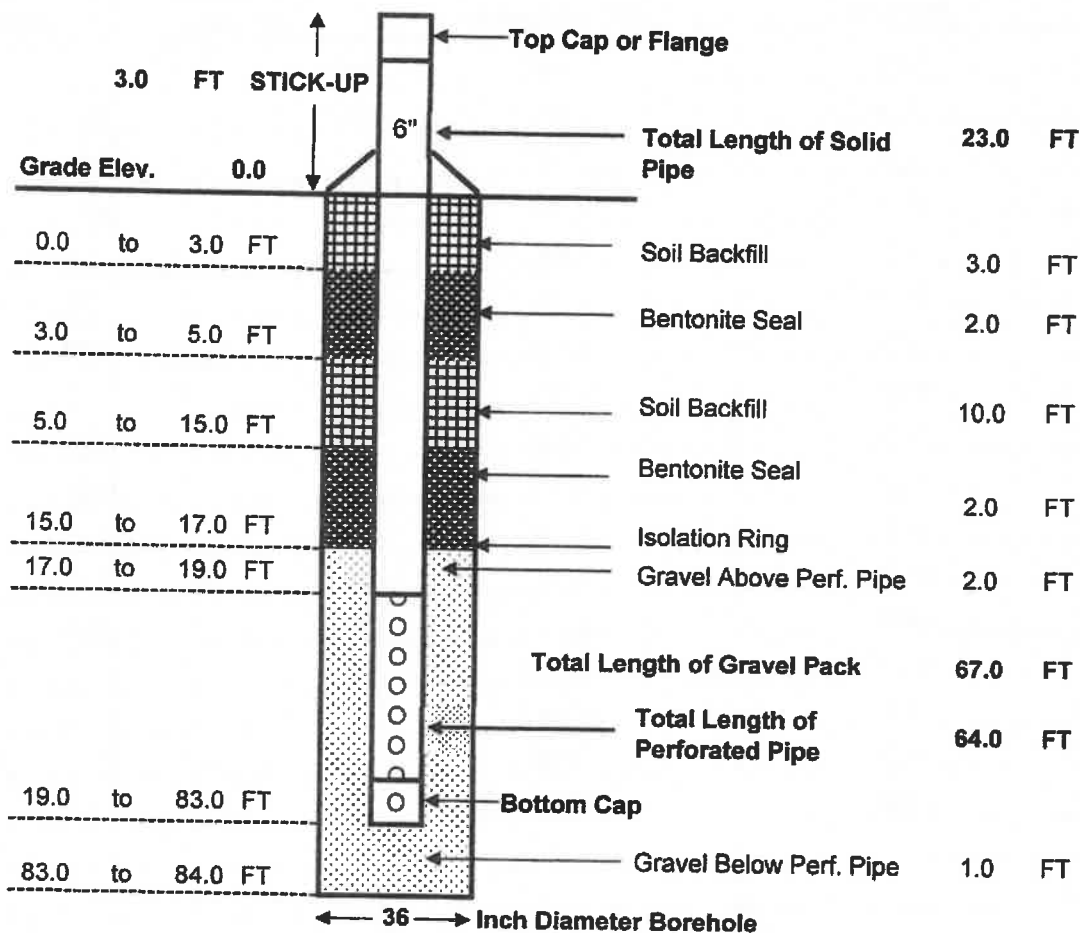
WELL INSTALLATION REPORT

Project Name: Lorain County Landfill
 Site Location: Oberlin, Ohio
 AEGL Project #: 214111
 Date Drilled: June 16, 2014
 Type of Casing: 6" SDR 11

Time in: 6:30
 Time out: 14:30
 Rig Hrs: 8
 Weather: sunny/rain

WELL ID #: EW-118R

TOTAL WELL DEPTH: 84.0 FT



Time	O2	H2S	LEL/CO
7am	20.9	0.0	0.0
8am	20.9	0.0	0.0
9am	20.9	0.0	0.0
10am	20.9	0.0	0.0
11am	20.9	0.0	0.0
noon	20.9	0.0	0.0
1pm	20.9	0.0	0.0
2pm	20.9	0.0	0.0
3pm			
4pm			
5pm			

NOTES:

The liner was 3' deep. We drilled and complete well.

CLIENT REP: [Signature]

SUPERVISOR: Billy Long

Americon Environmental Group, Ltd.
DRILLING LOG DATA

Project Name: Lorain County Landfill
 AEGL Project #: 214111
 Date Drilled: June 16, 2014

Well ID #: EW-118R
 Total Depth: 84'
 Supervisor: Billy Long

Drilling Depth	Type of Material	Degree of Composition	Amount of Moisture	Material Temperature
0-5	Clay	none	dry	70
5-10	msw	mod.	dry	75
10-15	msw	mod.	dry	89
15-20	msw	mod.	dry	89
20-25	msw	mod.	dry	98
25-30	msw	mod.	dry	106
30-35	msw	mod.	dry	112
35-40	msw	mod.	dry	112
40-45	msw	mod.	dry	114
45-50	msw	mod.	dry	108
50-55	msw	mod.	dry	120
55-60	msw	mod.	dry	111
60-65	msw	mod.	dry	128
65-70	msw	heavy	wet	121
70-75	msw	heavy	wet	121
75-80	msw	heavy	wet	111
80-84	msw	heavy	wet	117
85-90				
90-95				
95-100				
100-105				
105-110				
110-115				
115-120				
120-125				
125-130				
130-135				
135-140				
140-145				
145-150				

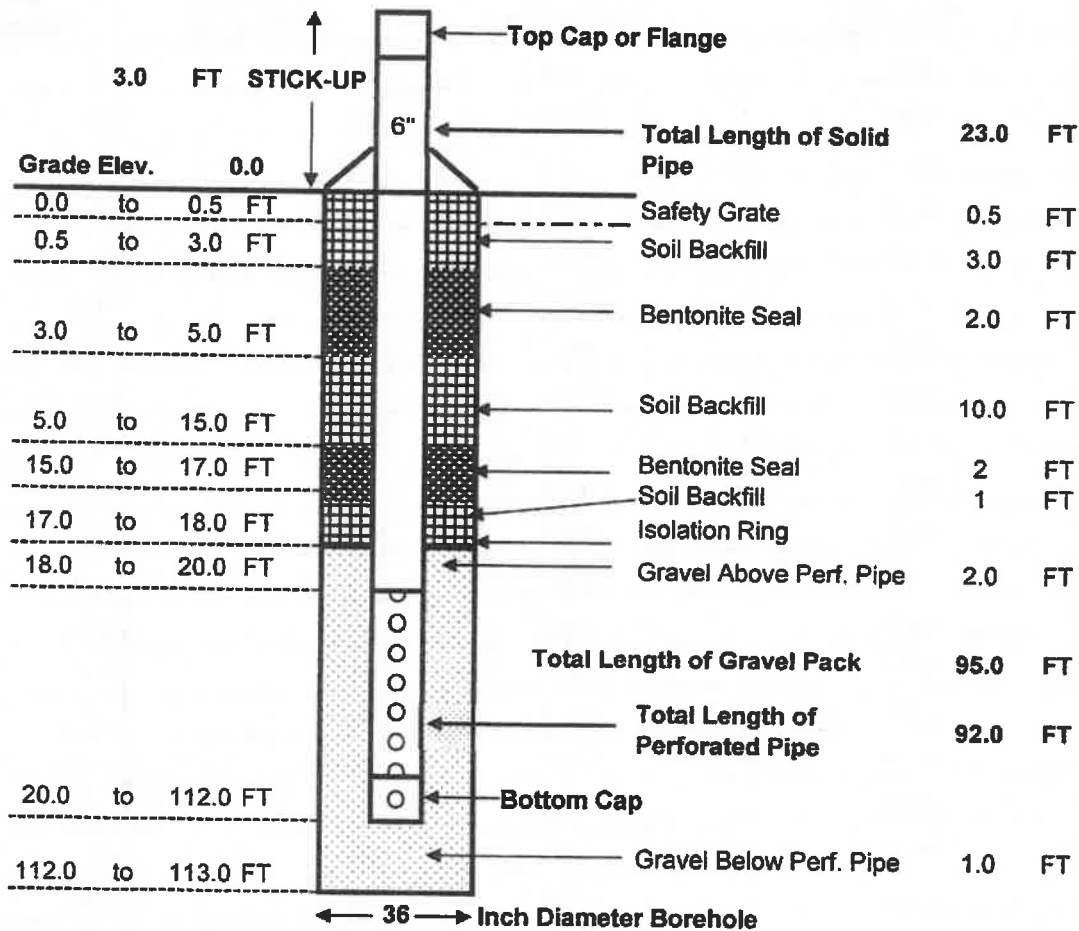
WELL INSTALLATION REPORT

Project Name: Lorain County Landfill
 Site Location: Oberlin, Ohio
 AEGL Project #: 214111
 Date Drilled: June 17, 2014
 Type of Casing: 6" SDR 11

Time in: 7:00
 Time out: 14:00
 Rig Hrs: 7
 Weather: sunny

WELL ID #: EW-116R2

TOTAL WELL DEPTH: 113.0 FT



Time O2 H2S LEL/CO NOTES:

7am	20.9	0.0	0.0
8am	20.9	0.0	0.0
9am	20.9	0.0	0.0
10am	20.9	0.0	0.0
11am	20.9	0.0	0.0
noon	20.9	0.0	0.0
1pm	20.9	0.0	0.0
2pm	20.9	0.0	0.0
3pm			
4pm			
5pm			

The liner was 3' deep. We drilled and complete well.

CLIENT REP: [Signature]

SUPERVISOR: Billy Long

Amerion Environmental Group, Ltd.
DRILLING LOG DATA

Project Name: Lorain County Landfill
AEGL Project #: 214111
Date Drilled: June 17, 2014

Well ID #: EW-116R2
Total Depth: 113
Supervisor: Billy Long

Drilling Depth	Type of Material	Degree of Composition	Amount of Moisture	Material Temperature
0-5	clay	none	dry	69
5-10	msw	mod.	dry	72
10-15	msw	mod.	dry	75
15-20	msw	mod.	dry	89
20-25	msw	mod.	dry	99
25-30	msw	mod.	dry	109
30-35	msw	mod.	dry	111
35-40	msw	mod.	dry	106
40-45	msw	mod.	dry	111
45-50	msw	mod.	dry	112
50-55	msw	mod.	dry	116
55-60	msw	mod.	dry	114
60-65	msw	mod.	dry	109
65-70	msw	mod.	dry	110
70-75	msw	mod.	dry	103
75-80	msw	mod.	dry	112
80-85	msw	mod.	dry	112
85-90	msw	mod.	dry	107
90-95	msw	mod.	dry	105
95-100	msw	mod.	dry	100
100-105	msw	mod.	dry	92
105-110	msw	mod.	dry	99
110-113	msw	mod.	dry	93
115-120				
120-125				
125-130				
130-135				
135-140				
140-145				
145-150				

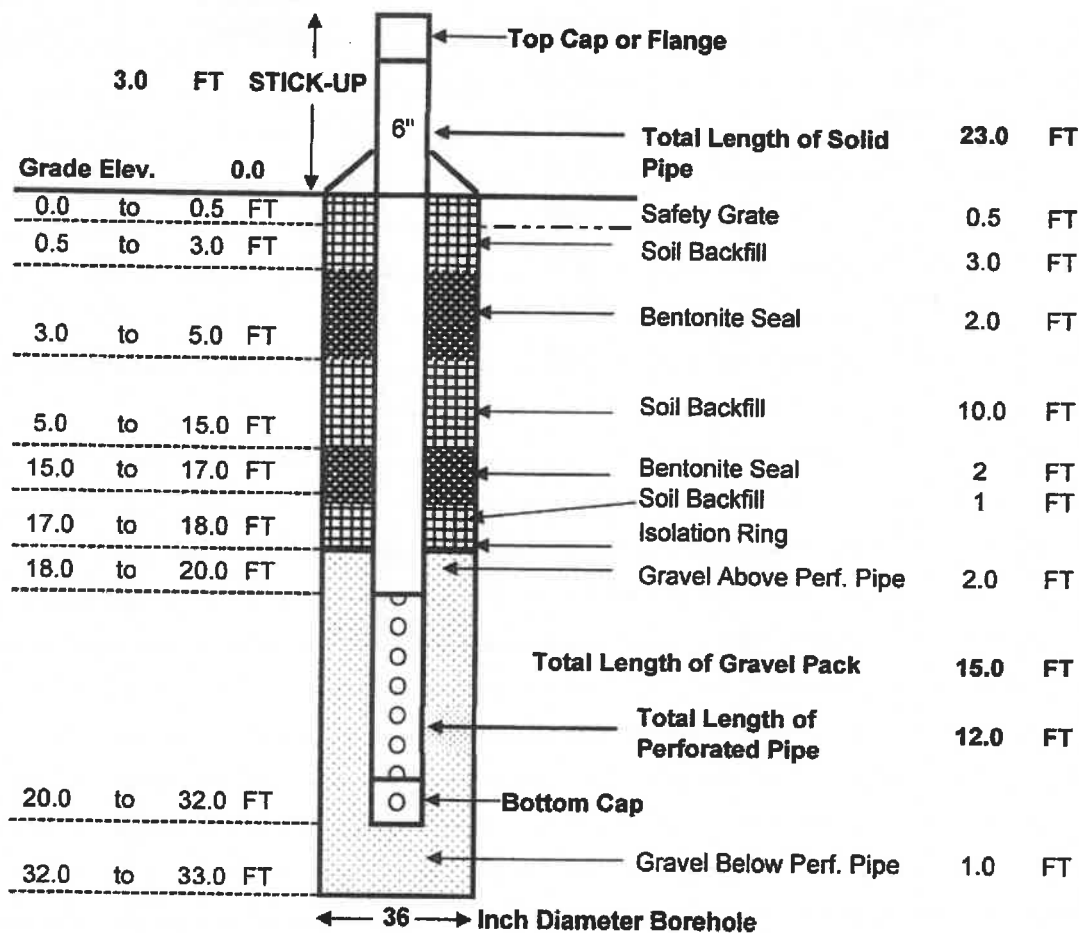
WELL INSTALLATION REPORT

Project Name: Lorain County Landfill
 Site Location: Oberlin, Ohio
 AEGL Project #: 214111
 Date Drilled: June 18, 2014
 Type of Casing: 6" SDR 11

Time in: 7:50
 Time out: 9:50
 Rig Hrs: 2
 Weather: P/Cloudy/Sunny

WELL ID #: EW-60R

TOTAL WELL DEPTH: 33.0 FT



Time	O2	H2S	LEL/CO
7am	20.9	0 0	
8am	20.9	0 0	
9am	20.9	0 0	
10am			
11am			
noon			
1pm			
2pm			
3pm			
4pm			
5pm			

NOTES:

We drilled and complete well.

CLIENT REP: John Media CAA

SUPERVISOR: Charles Kellett

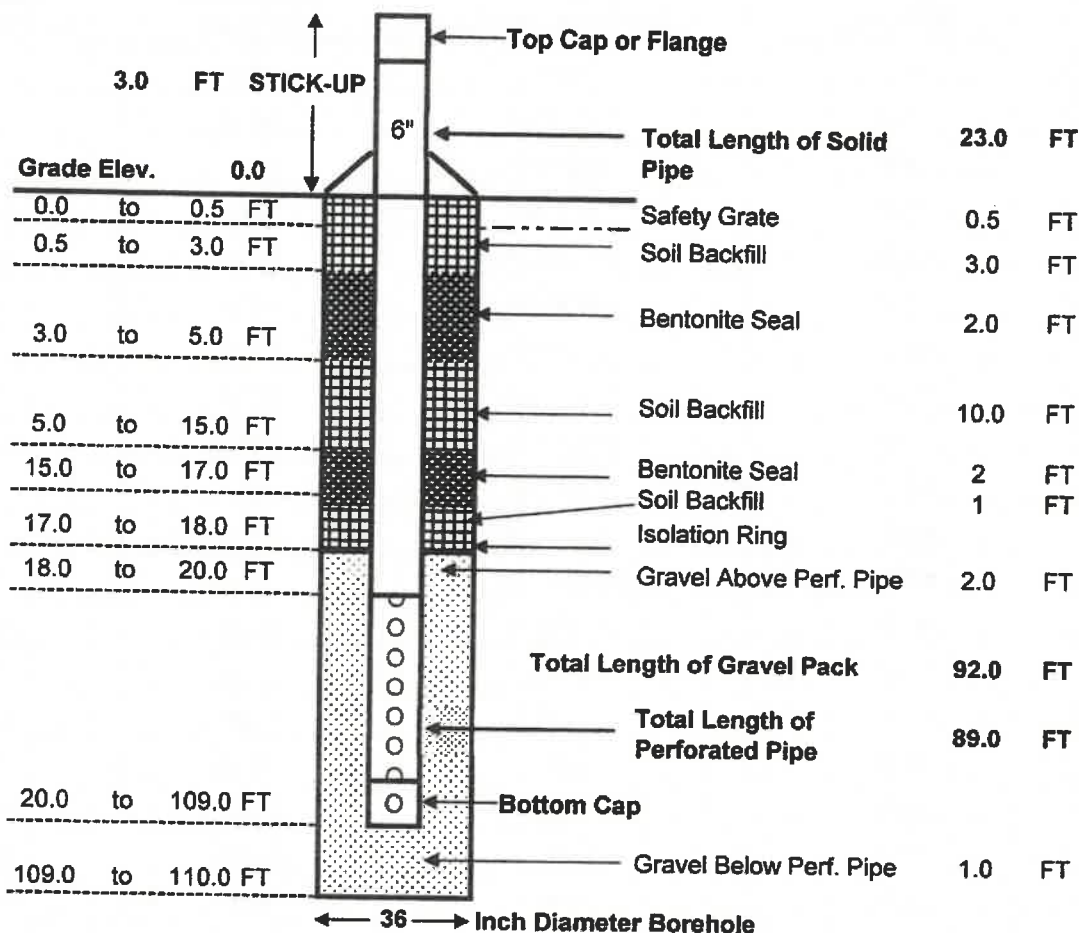
WELL INSTALLATION REPORT

Project Name: Lorain County Landfill
 Site Location: Oberlin, Ohio
 AEGL Project #: 214111
 Date Drilled: June 20, 2014
 Type of Casing: 6" SDR 11

Time in: 7:00
 Time out: 2:00
 Rig Hrs: 7
 Weather: P/Cloudy/Sunny

WELL ID #: EW-153R2

TOTAL WELL DEPTH: 110.0 FT



Time	O2	H2S	LEL/CO
7am	20.9	0.0	0.0
8am	20.9	0.0	0.0
9am	20.9	0.0	0.0
10am	20.9	0.0	0.0
11am	20.9	0.0	0.0
noon	20.9	0.0	0.0
1pm	20.9	0.0	0.0
2pm	20.9	0.0	0.0
3pm			
4pm			
5pm			

NOTES:

We drilled and complete well.

CLIENT REP: [Signature]

SUPERVISOR: Charles Kellett

Americon Environmental Group, Ltd.
DRILLING LOG DATA

Project Name: Lorain County Landfill
AEGL Project #: 214111
Date Drilled: June 20, 2014

Well ID #: EW153R2
Total Depth: 110
Supervisor: Charles Kellett

Drilling Depth	Type of Material	Degree of De-Composition	Amount of Moisture	Material Temperature
0-5	clay	none	dry	
5-10	msw	moderate	Moist	79
10-15	msw	moderate	Moist	83
15-20	msw	moderate	Moist	83
20-25	msw	moderate	Moist	87
25-30	msw	moderate	Moist	90
30-35	msw	moderate	Moist	105
35-40	msw	moderate	Moist	105
40-45	msw	moderate	dry	104
45-50	msw	moderate	dry	110
50-55	msw	moderate	moist	111
55-60	msw	moderate	moist	130
60-65	msw	moderate	moist	138
65-70	msw	High	moist	130
70-75	msw	High	moist	125
75-80	msw	High	moist	130
80-85	msw	High	moist	131
85-90	msw	High	moist	126
90-95	msw	High	wet	126
95-100	msw/soil	High	moist	130
100-105	msw/soil	High	moist	128
105-110	msw/soil/ash	High	moist/wet	126
110-115				
115-120				
120-125				
125-130				
130-135				
135-140				
140-145				
145-150				

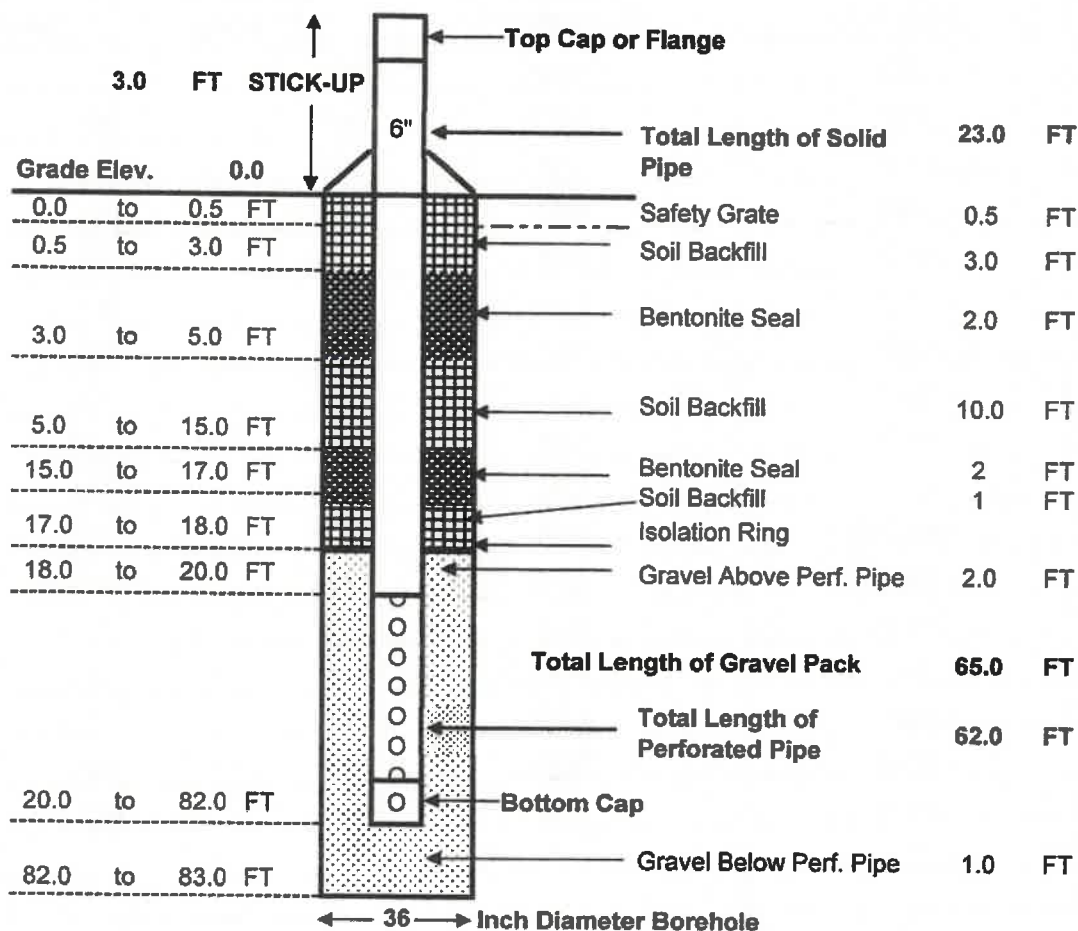
WELL INSTALLATION REPORT

Project Name: Lorain County Landfill
 Site Location: Oberlin, Ohio
 AEGL Project #: 214111
 Date Drilled: June 23, 2014
 Type of Casing: 6" SDR 11

Time in: 7:30
 Time out: 11:00
 Rig Hrs: 3.5
 Weather: sunny

WELL ID #: EW-32R2

TOTAL WELL DEPTH: 83.0 FT



Time	O2	H2S	LEL/CO
7am	20.9	0	0
8am	20.9	0	0
9am	20.9	0	0
10am	20.9	0	0
11am	20.9	0	0
noon			
1pm			
2pm			
3pm			
4pm			
5pm			

NOTES:

Liner at 3ft. We drilled and completed well.

CLIENT REP: John Walker CMA

SUPERVISOR: Charles Kellett

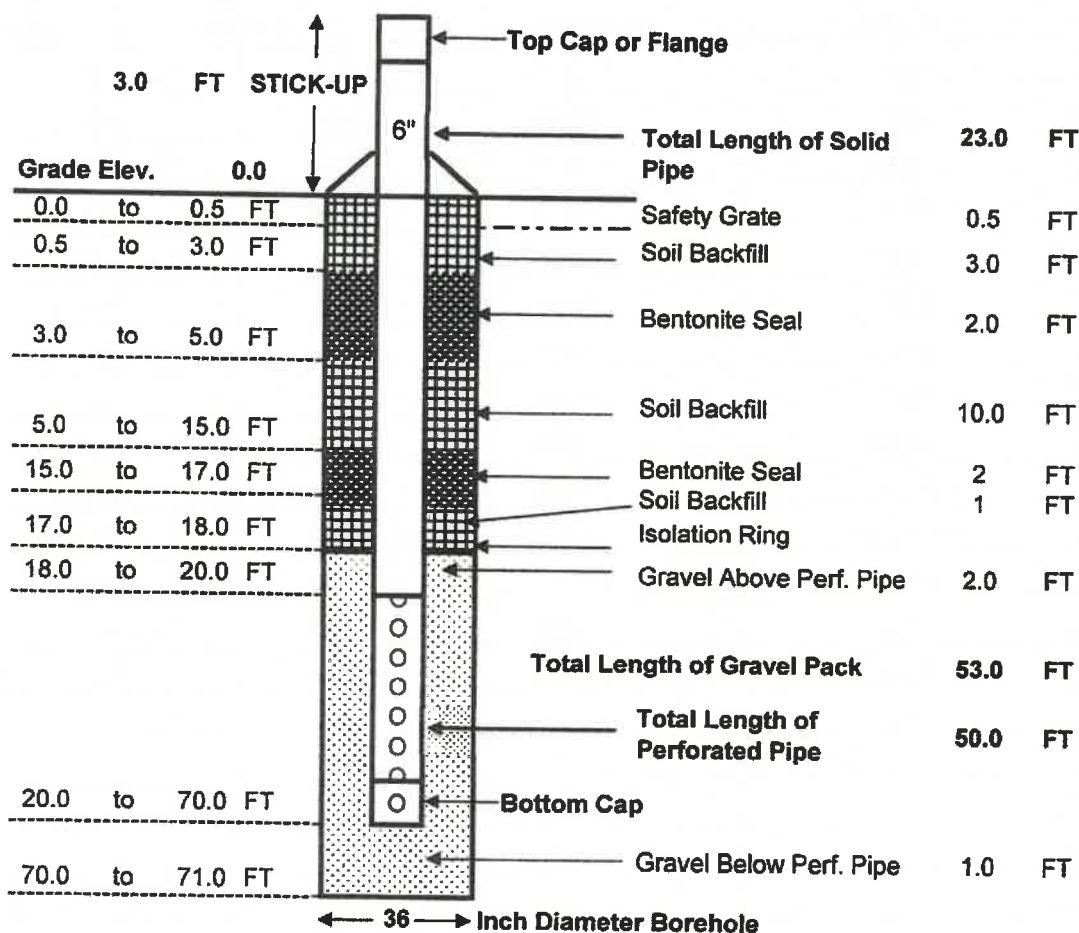
WELL INSTALLATION REPORT

Project Name: Lorain County Landfill
 Site Location: Oberlin, Ohio
 AEGL Project #: 214111
 Date Drilled: June 23, 2014
 Type of Casing: 6" SDR 11

Time in: 12:00
 Time out: 3:30
 Rig Hrs: 3.5
 Weather: sunny/rain

WELL ID #: EW-323R

TOTAL WELL DEPTH: 71.0 FT



Time	O2	H2S	LEL/CO
7am			
8am			
9am			
10am			
11am			
noon	20.9	0 0	
1pm	20.9	0 0	
2pm	20.9	0 0	
3pm	20.9	0 0	
4pm	20.9	0 0	
5pm			

NOTES:

We drilled and completed well.

CLIENT REP: [Signature]

SUPERVISOR: Charles Kellett

American Environmental Group, Ltd.
DRILLING LOG DATA

Project Name: Lorain County Landfill
AEGL Project #: 214111
Date Drilled: June 23, 2014

Well ID #:	EW-323R
Total Depth:	71
Supervisor:	Charles Kellett

[illegible]

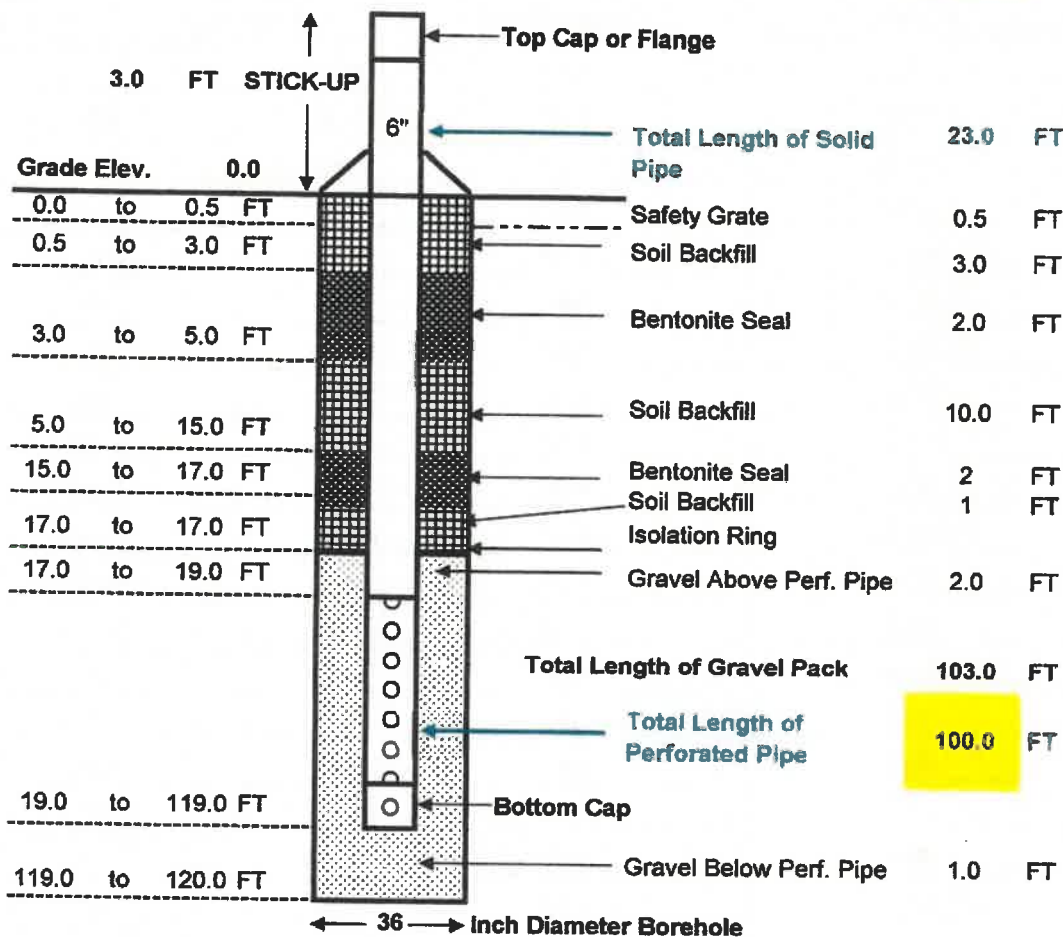
WELL INSTALLATION REPORT

Project Name: Lorain County Landfill
 Site Location: Oberlin, Ohio
 AEGL Project #: 214111
 Date Drilled: June 24, 2014
 Type of Casing: 6" SDR 11

Time in: 7:00
 Time out: 3:30
 Rig Hrs: 5.5
 Weather: P/Cloudy/Sunny

WELL ID #: EW-53R2

TOTAL WELL DEPTH: 120.0 FT



Time	O2	H2S	LEL/CO
7am	20.9	0.0	0.0
8am	20.9	0.0	0.0
9am	20.9	0.0	0.0
10am	20.9	0.0	0.0
11am	20.9	0.0	0.0
noon	20.9	0.0	0.0
1pm	20.9	0.0	0.0
2pm	20.9	0.0	0.0
3pm	20.9	0.0	0.0
4pm			
5pm			

NOTES:

We drilled and complete well.

CLIENT REP: [Signature]

SUPERVISOR: Charles Kellett

American Environmental Group, Ltd.
DRILLING LOG DATA

Project Name:	Lorain County Landfill
AEGL Project #:	214111
Date Drilled:	June 24, 2014

Well ID #:	EW-53R2
Total Depth:	120
Supervisor:	Charles Kellett

[illegible]

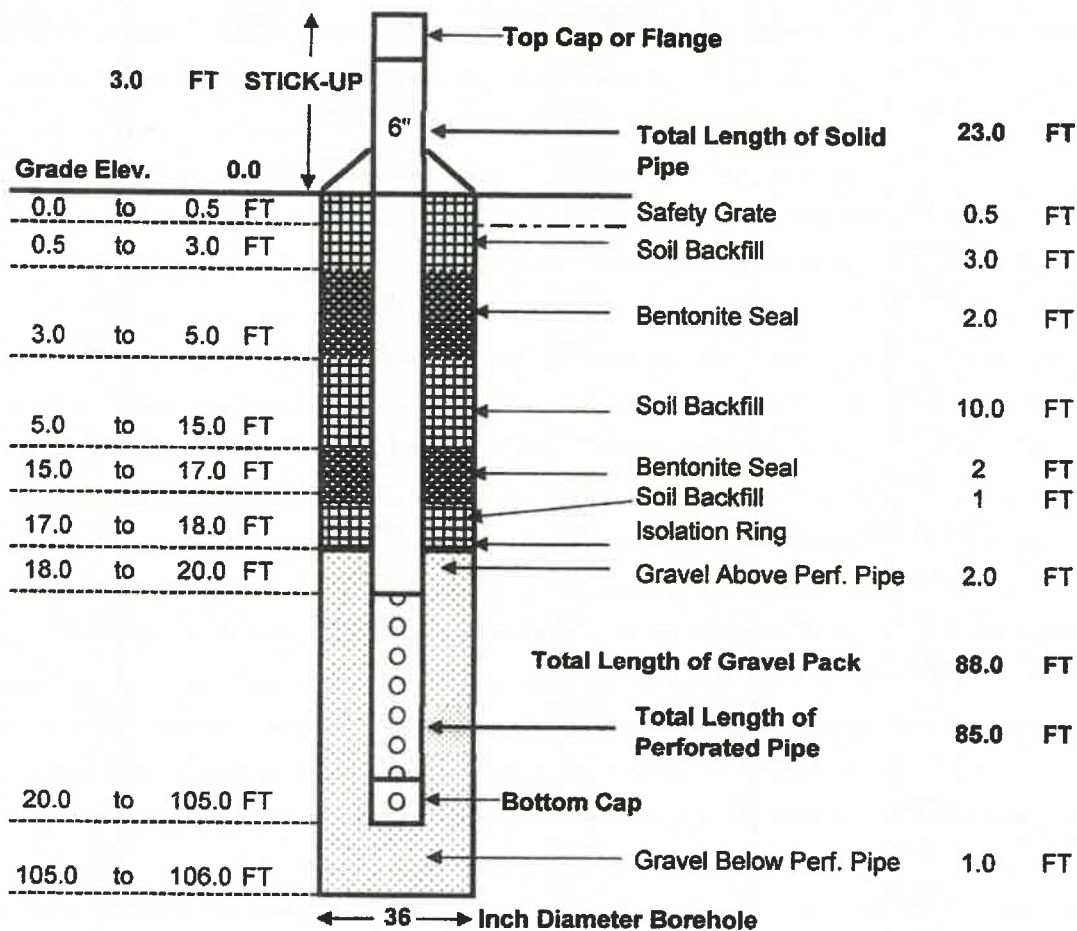
WELL INSTALLATION REPORT

Project Name: Lorain County Landfill
 Site Location: Oberlin, Ohio
 AEGL Project #: 214111
 Date Drilled: June 26, 2014
 Type of Casing: 8" SDR 11

Time in: 7:00
 Time out: 3:30
 Rig Hrs: 7.3
 Weather: P/Cloudy/Sunny

WELL ID #: EW-49R4

TOTAL WELL DEPTH: 106.0 FT



Time O2 H2S LEL/CO

7am	20.9	0 0
8am	20.9	0 0
9am	20.9	0 0
10am	20.9	0 0
11am	20.9	0 0
noon	20.9	0 0
1pm	20.9	0 0
2pm	20.9	0 0
3pm	20.9	0 0
4pm		
5pm		

NOTES:

We drilled and complete well.

CLIENT REP:

[Signature] CQA

SUPERVISOR:

Charles Kellett

Well ID #:	EW-49R4
Total Depth:	106
Supervisor:	Charles Kellett

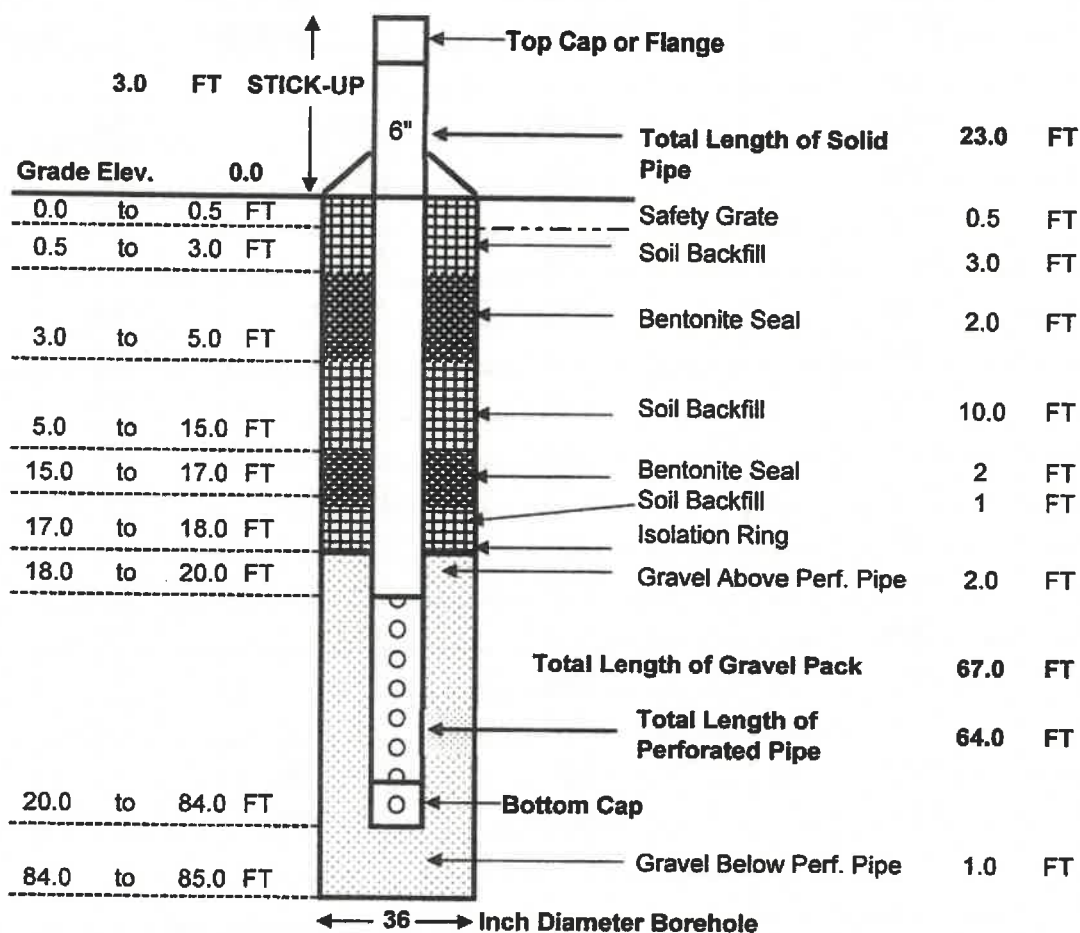
WELL INSTALLATION REPORT

Project Name: Lorain County Landfill
 Site Location: Oberlin, Ohio
 AEGL Project #: 214111
 Date Drilled: June 27, 2014
 Type of Casing: 6" SDR 11

Time in: 7:45
 Time out: 12:30
 Rig Hrs: 4.5
 Weather: sunny

WELL ID #: EW-156R

TOTAL WELL DEPTH: 85.0 FT



Time	O2	H2S	LEL/CO
7am	20.9	0.0	0.0
8am	20.9	0.0	0.0
9am	20.9	0.0	0.0
10am	20.9	0.0	0.0
11am	20.9	0.0	0.0
noon	20.9	0.0	0.0
1pm			
2pm			
3pm			
4pm			
5pm			

NOTES:

We drilled and completed well. Broken cable in sludge

CLIENT REP: John A. CARR

SUPERVISOR: Charles Kellett

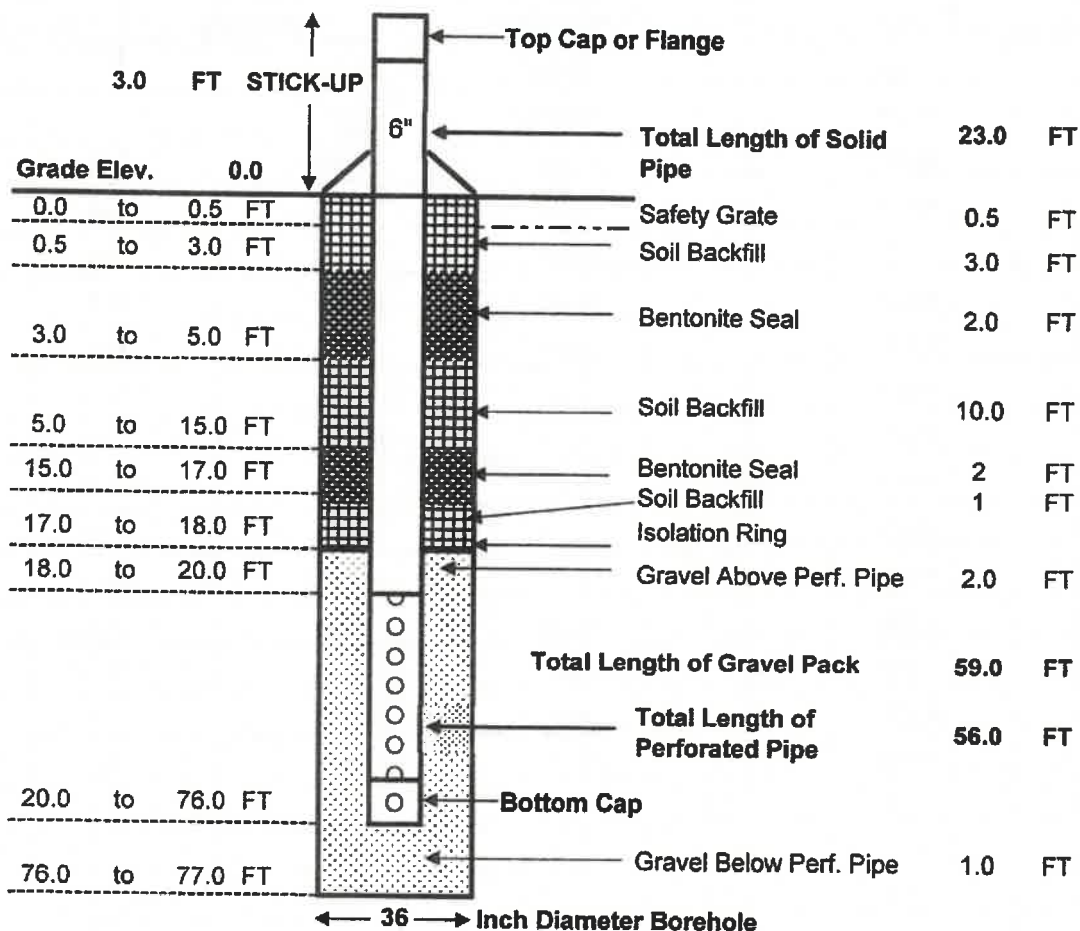
WELL INSTALLATION REPORT

Project Name: Lorain County Landfill
 Site Location: Oberlin, Ohio
 AEGL Project #: 214111
 Date Drilled: June 28, 2014
 Type of Casing: 6" SDR 11

Time in: 7:15
 Time out: 10:30
 Rig Hrs: 3.25
 Weather: sunny

WELL ID #: EW-301R

TOTAL WELL DEPTH: 77.0 FT



Time	O2	H2S	LEL/CO
7am	20.9	0.0	0.0
8am	20.9	0.0	0.0
9am	20.9	0.0	0.0
10am	20.9	0.0	0.0
11am			
noon			
1pm			
2pm			
3pm			
4pm			
5pm			

NOTES:

We drilled and completed well.

CLIENT REP: [Signature]

SUPERVISOR: Charles Kellett

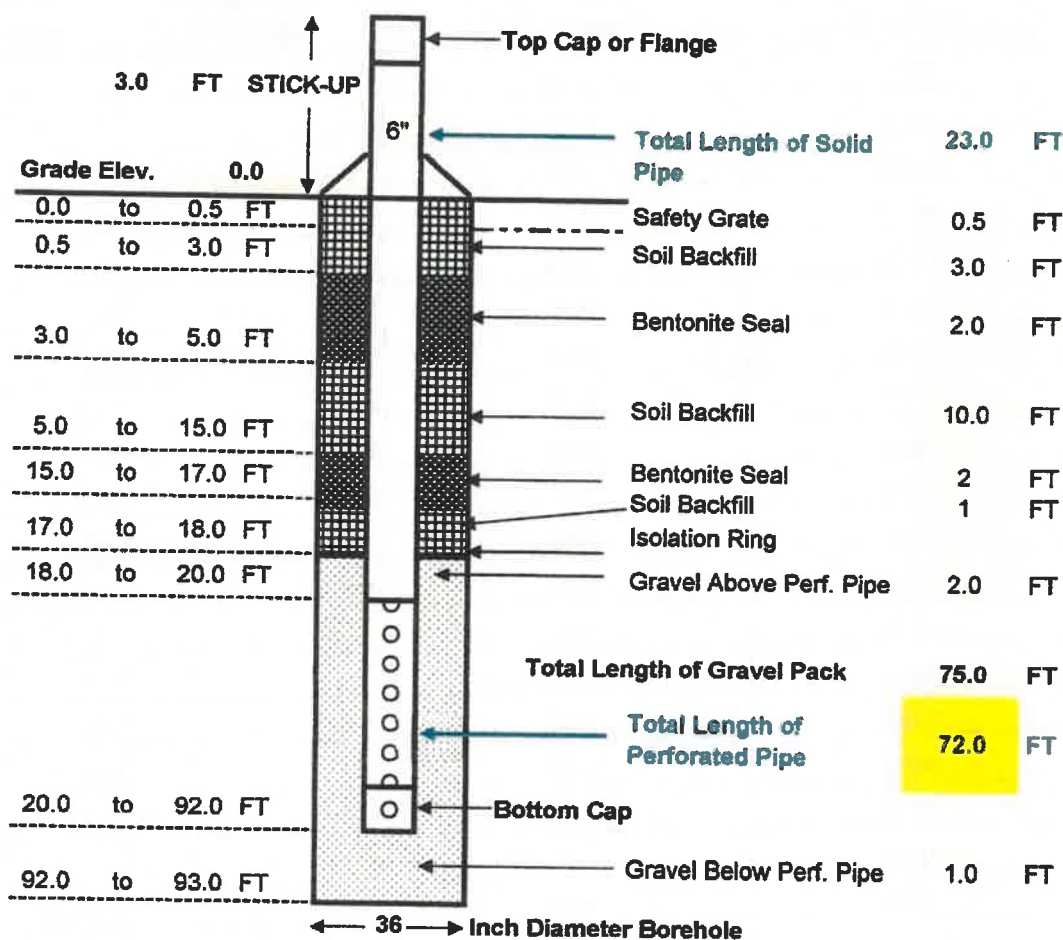
WELL INSTALLATION REPORT

Project Name: Lorain County Landfill
 Site Location: Oberlin, Ohio
 AEGL Project #: 214111
 Date Drilled: June 28, 2014
 Type of Casing: 6" SDR 11

Time in: 7:05
 Time out: 11:45
 Rig Hrs: 4.5
 Weather: sunny

WELL ID #: EW-157R

TOTAL WELL DEPTH: 93.0 FT



Time O₂ H₂S LEL/CO

7am	20.9	0	0
8am	20.9	0	0
9am	20.9	0	0
10am	20.9	0	0
11am			
noon			
1pm			
2pm			
3pm			
4pm			
5pm			

NOTES:

We drilled and completed well.

CLIENT REP: [Signature]

SUPERVISOR: Charles Kellett

Well ID #:	EW-157R
Total Depth:	93
Supervisor:	Charles Kellett

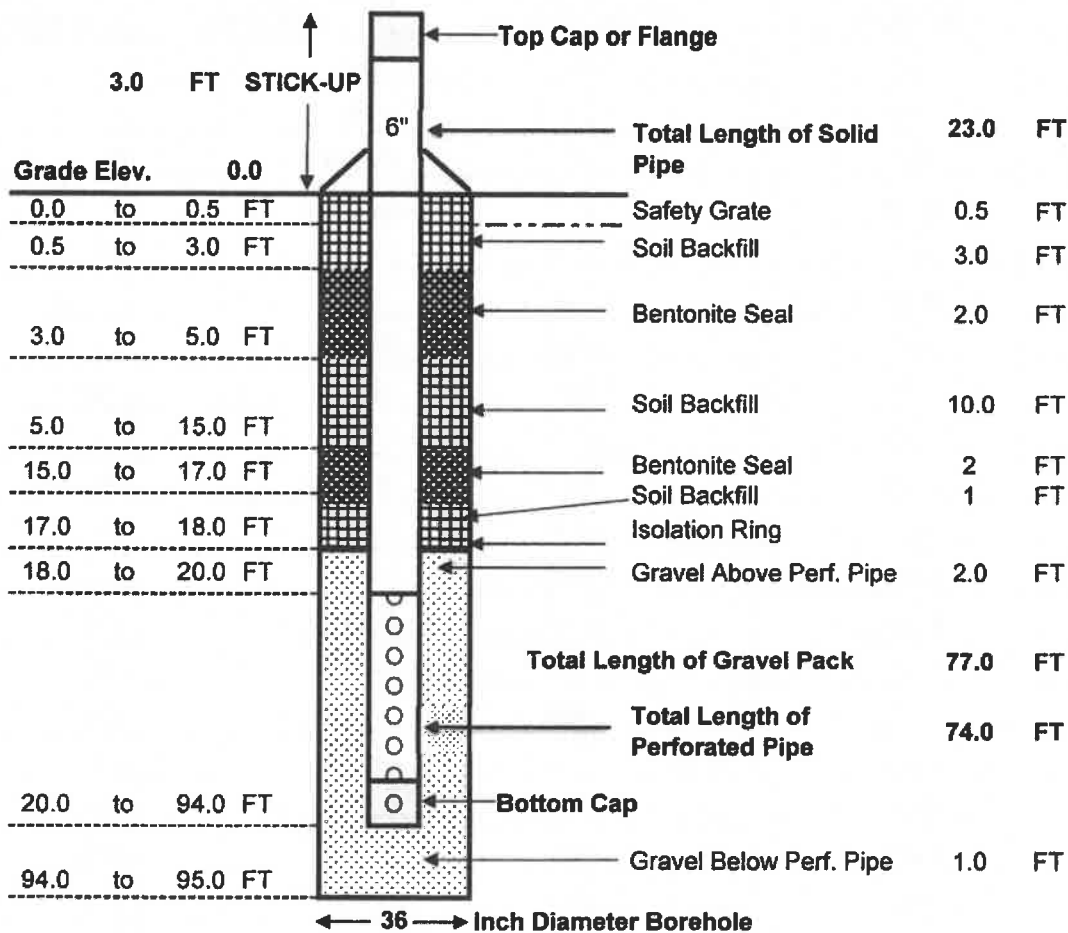


WELL INSTALLATION REPORT

Project Name: Lorain County Landfill
Site Location: Oberlin, Ohio
AEGL Project #: 214111
Date Drilled: July 2, 2014
Type of Casing: 6" SDR 11

Time in: 7:05
Time out: 10:30
Rig Hrs: 3.5
Weather: sunny

WELL ID #: EW-167R **TOTAL WELL DEPTH:** 95.0 **FT**



Time O2 H2S LEL/CO NOTES:

7am	20.9	0	0
8am	20.9	0	0
9am	20.9	0	0
10am	20.9	0	0
11am			
noon			
1pm			
2pm			
3pm			
4pm			
5pm			

We drilled and completed well.

CLIENT REP: [Signature] CQA

SUPERVISOR: Charles Kellett

Well ID #: EW-167R

Total Depth: 95

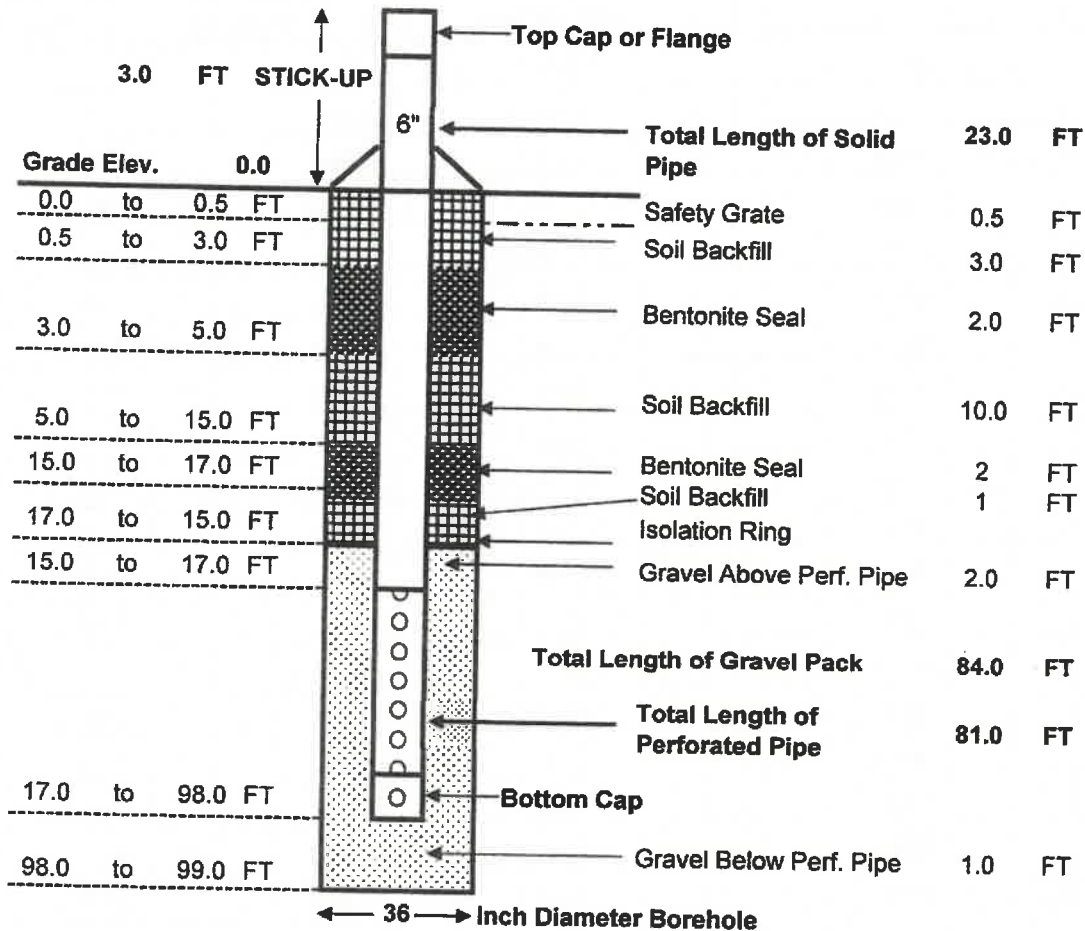
Supervisor: Charles Kellett

WELL INSTALLATION REPORT

Project Name: Lorain County Landfill
 Site Location: Oberlin, Ohio
 AEGL Project #: 214111
 Date Drilled: July 2, 2014
 Type of Casing: 8" SDR 11

Time in: 11:10
 Time out: 16:10
 Rig Hrs: 5
 Weather: sunny

WELL ID #: EW-52R3 TOTAL WELL DEPTH: 99.0 FT



Time	O2	H2S	LEL/CO
7am			
8am			
9am			
10am			
11am	20.9		
noon	20.9		
1pm	20.9		
2pm	20.9		
3pm	20.9		
4pm	20.9		
5pm			

NOTES:

Drilled sludge 1.5 hours EW-52R3 We drilled and completed well.

CLIENT REP: [Signature]

SUPERVISOR: Charles Kellett

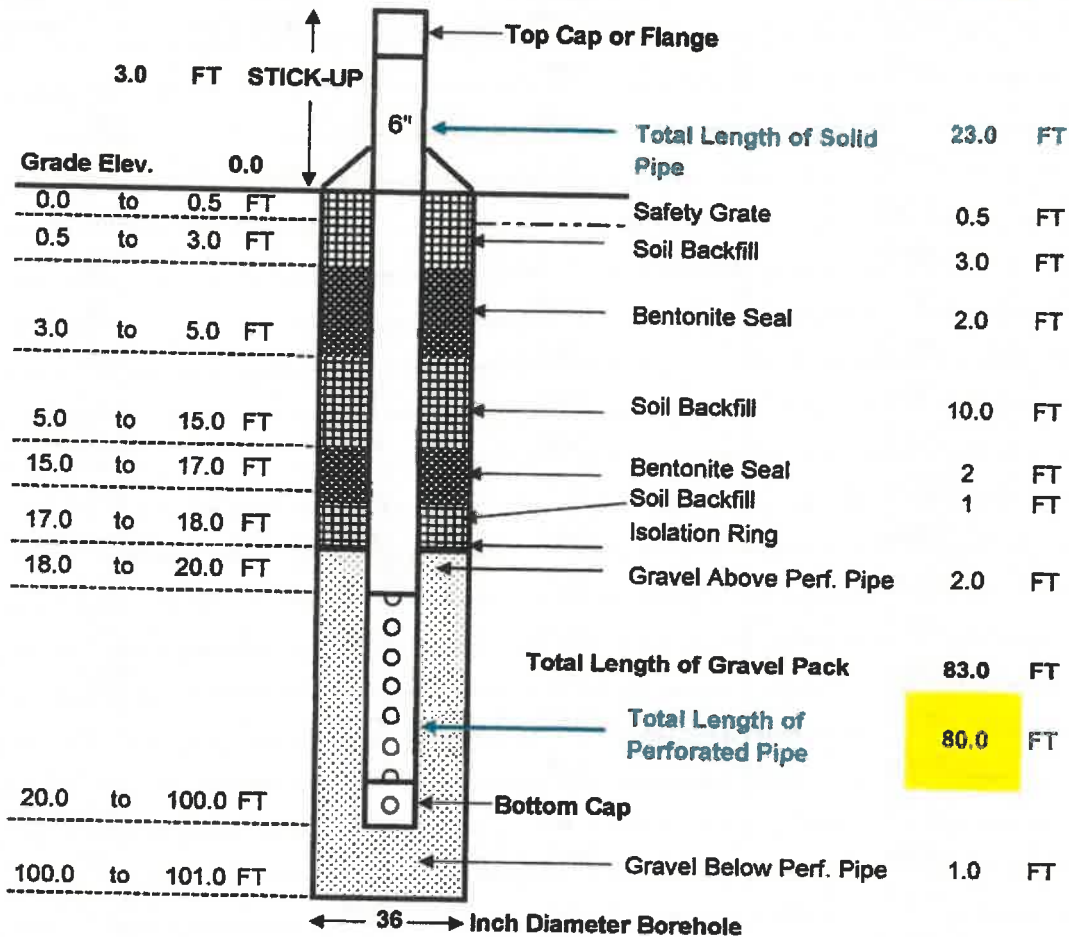
WELL INSTALLATION REPORT

Project Name: Lorain County Landfill
 Site Location: Oberlin, Ohio
 AEGL Project #: 214111
 Date Drilled: July 9, 2014
 Type of Casing: 6" SDR 11

Time in: 6:45
 Time out: 12:30
 Rig Hrs: 35.75
 Weather: sunny

WELL ID #: TEW-9R2

TOTAL WELL DEPTH: 101.0 FT



Time	O2	H2S	LEL/CO
7am	20.9	0 0	
8am	20.9	0 0	
9am	20.9	0 0	
10am	20.9	0 0	
11am	20.9	0 0	
noon	20.9	0 0	
1pm			
2pm			
3pm			
4pm			
5pm			

NOTES:

We drilled and completed well.

CLIENT REP: [Signature]

SUPERVISOR: Charles Kellett



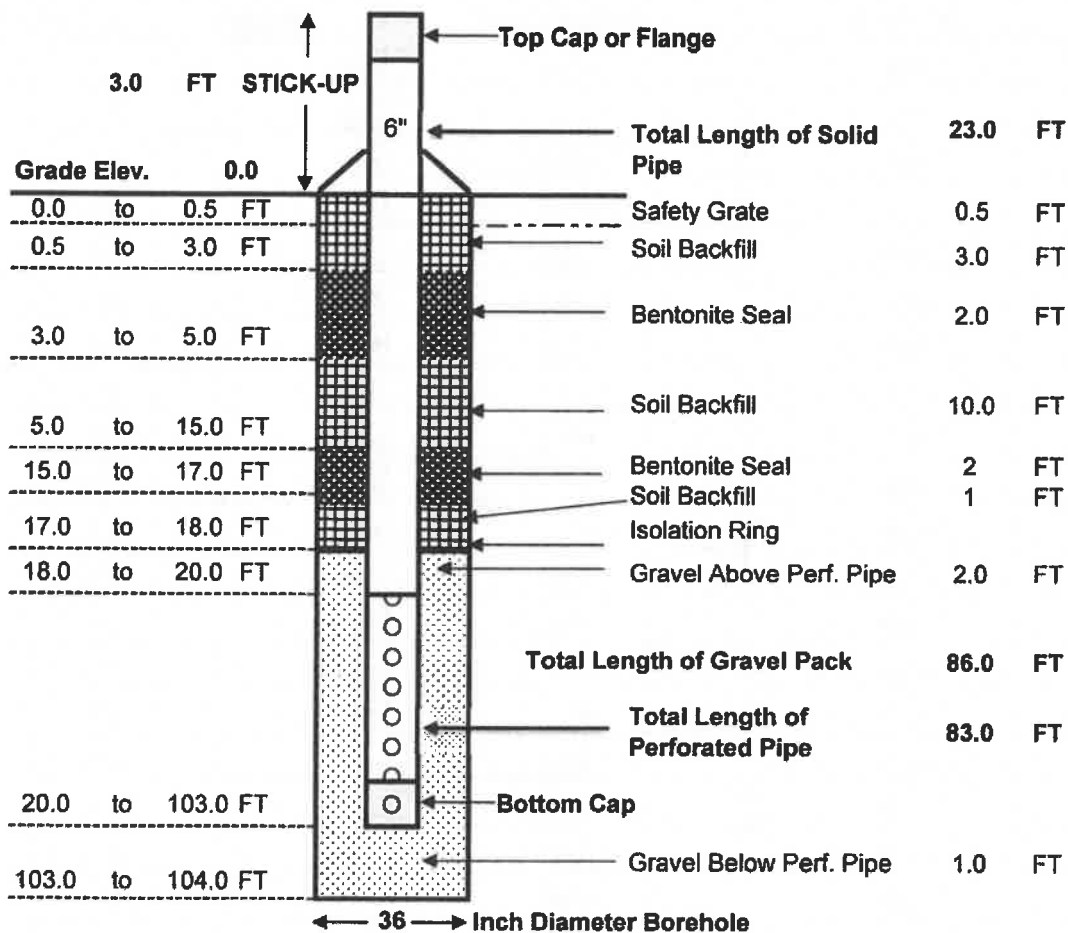
WELL INSTALLATION REPORT

Project Name: Lorain County Landfill
Site Location: Oberlin, Ohio
AEGL Project #: 214111
Date Drilled: July 10, 2014
Type of Casing: 8" SDR 11

Time in: 6:45
Time out: 12:15
Rig Hrs: 5.5
Weather: sunny

WELL ID #: EW-34R3

TOTAL WELL DEPTH: 104.0 FT



Time O2 H2S LEL/CO NOTES:

7am	20.9	0	0
8am	20.9	0	0
9am	20.9	0	0
10am	20.9	0	0
11am	20.9	0	0
noon	20.9	0	0
1pm			
2pm			
3pm			
4pm			
5pm			

We drilled and completed well.

CLIENT REP:

Paula Zolna CQA

SUPERVISOR:

Charles Kellett

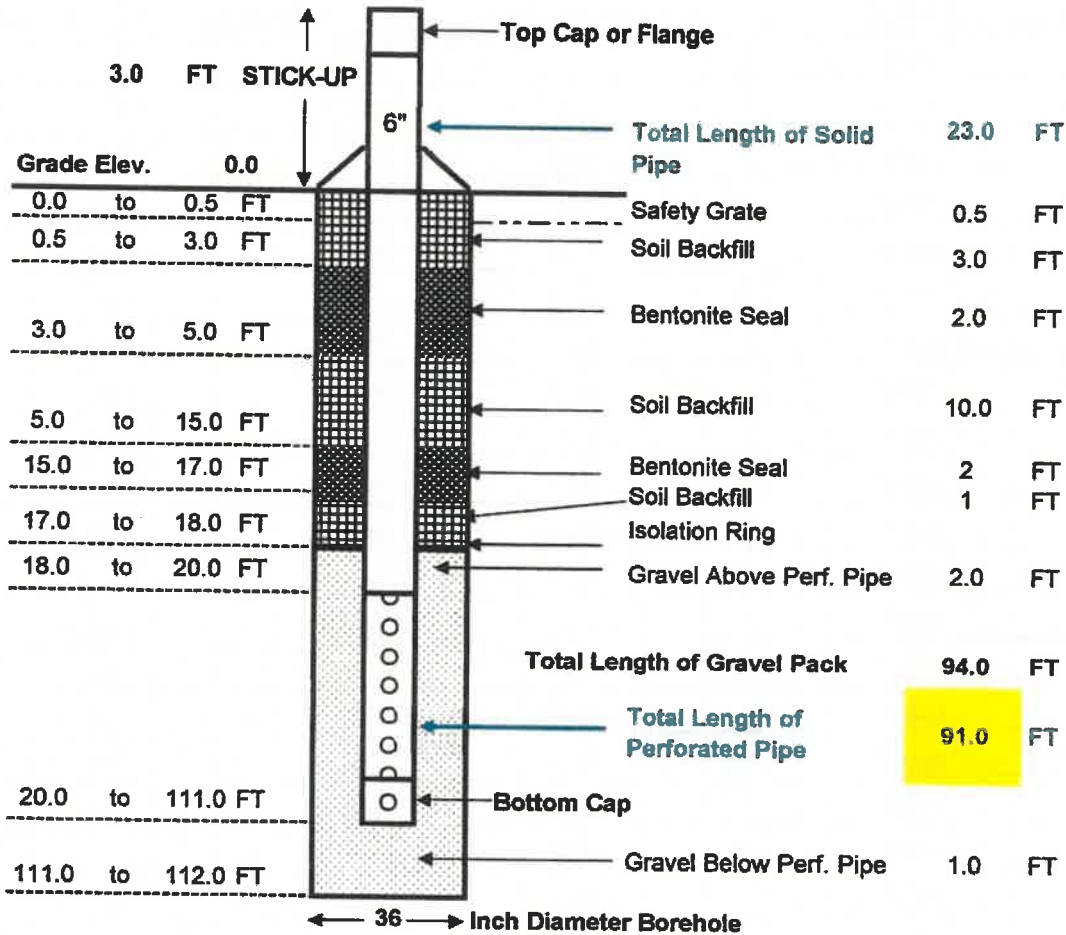
WELL INSTALLATION REPORT

Project Name: Lorain County Landfill
 Site Location: Oberlin, Ohio
 AEGL Project #: 214111
 Date Drilled: July 11, 2014
 Type of Casing: 8" SDR 11

Time in: 7:30
 Time out: 1:40
 Rig Hrs: 6.25
 Weather: sunny

WELL ID #: EW-57R3

TOTAL WELL DEPTH: 112.0 FT



Time	O2	H2S	LEL/CO
7am	20.9	0.0	0.0
8am	20.9	0.0	0.0
9am	20.9	0.0	0.0
10am	20.9	0.0	0.0
11am	20.9	0.0	0.0
noon	20.9	0.0	0.0
1pm	20.9	0.0	0.0
2pm			
3pm			
4pm			
5pm			

NOTES:

We drilled and completed well.

CLIENT REP: [Signature]

SUPERVISOR: Charles Kellett

DRILLING LOG DATA

Date Drilled: July 11, 2014

Supervisor: **Charles Kellett**

[illegible]

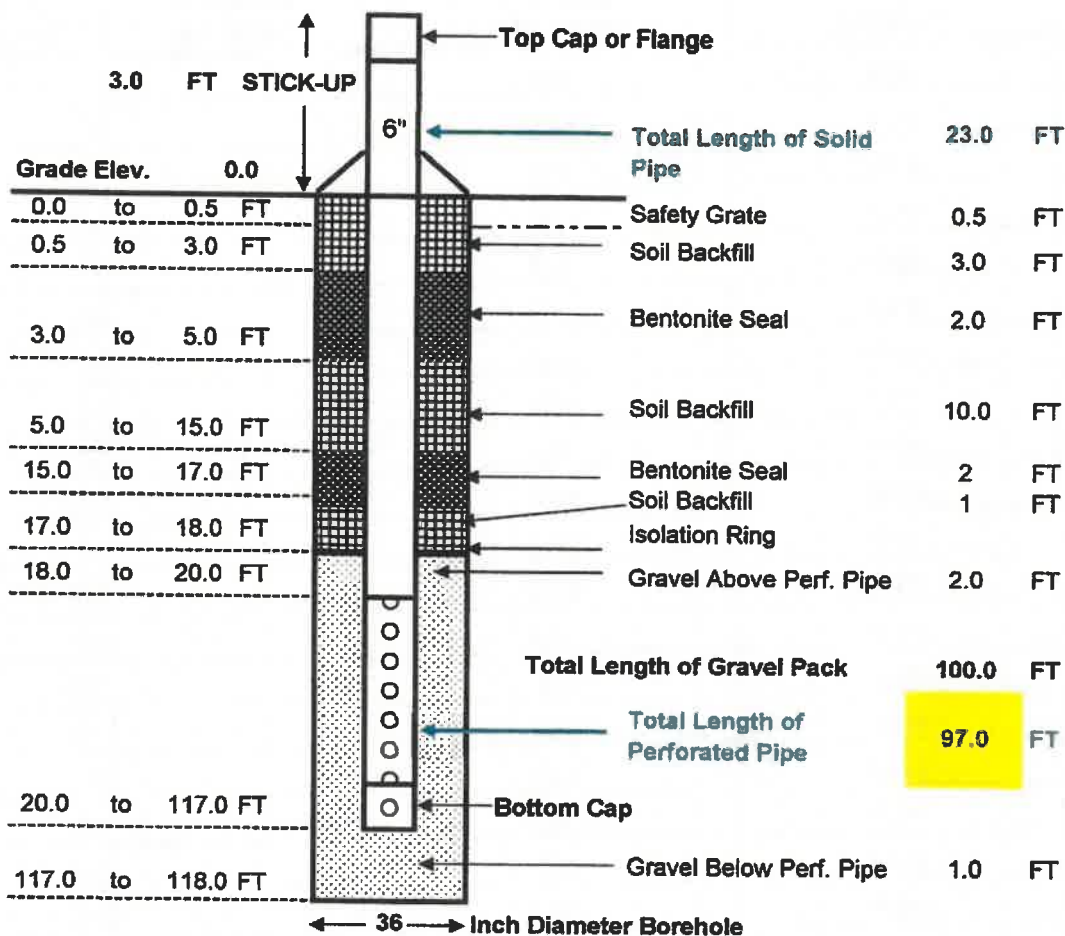
WELL INSTALLATION REPORT

Project Name: Lorain County Landfill
 Site Location: Oberlin, Ohio
 AEGL Project #: 214111
 Date Drilled: July 14, 2014
 Type of Casing: 8" SDR 11

Time in: 7:00
 Time out: 13:25
 Rig Hrs: 6.25
 Weather: sunny

WELL ID #: EW-56R3

TOTAL WELL DEPTH: 118.0 FT



Time	O2	H2S	LEL/CO
7am	20.9	0.0	0.0
8am	20.9	0.0	0.0
9am	20.9	0.0	0.0
10am	20.9	0.0	0.0
11am	20.9	0.0	0.0
noon	20.9	0.0	0.0
1pm	20.9	0.0	0.0
2pm			
3pm			
4pm			
5pm			

NOTES:

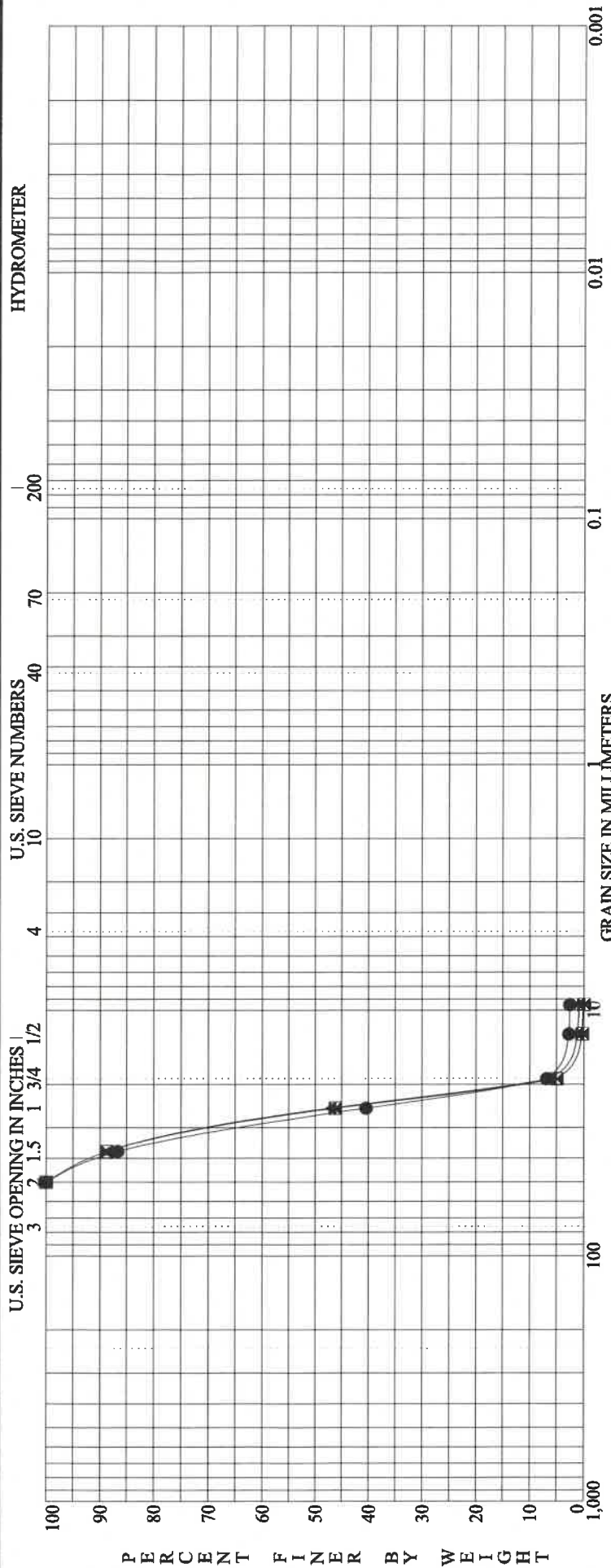
We drilled and completed well.

CLIENT REP: [Signature]

SUPERVISOR: Charles Kellett



APPENDIX F – No. 4 Stone Laboratory Results

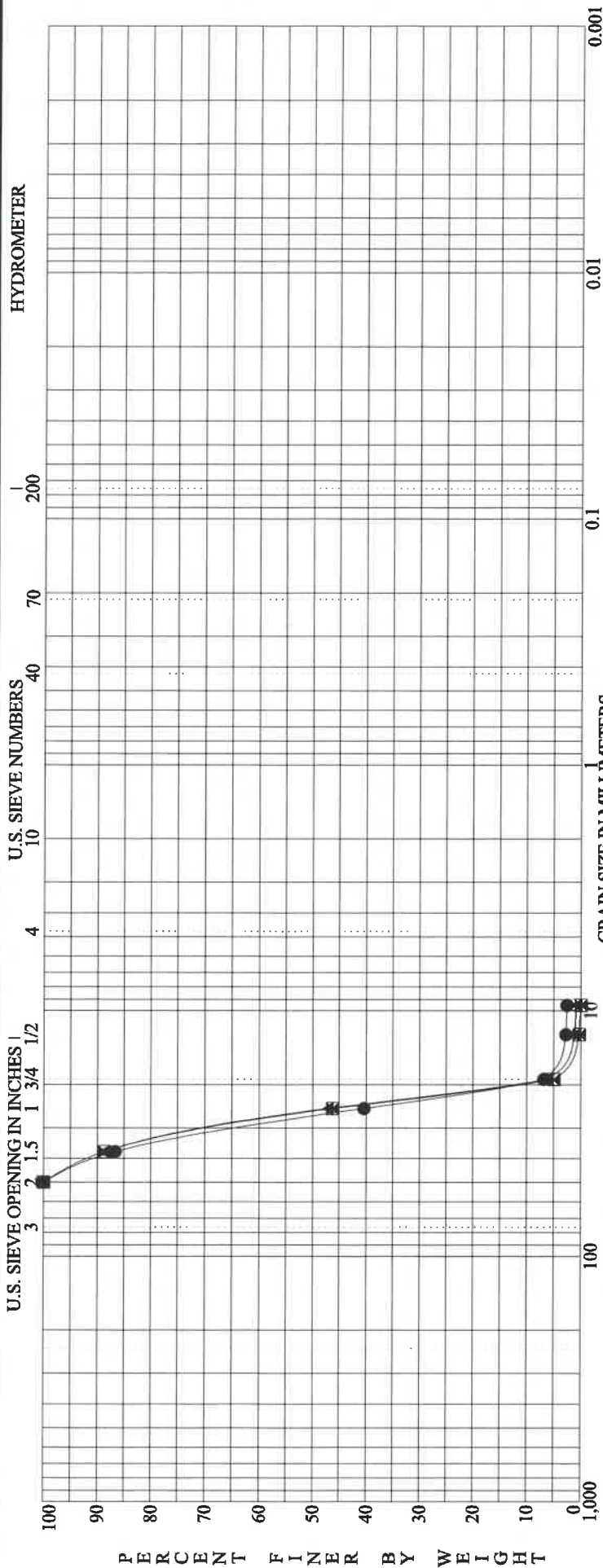


BOULDERS	COBBLES	GRAVEL			SAND			SILT OR CLAY					
		coarse	fine		coarse	medium	fine	MC%	LL	PL	PI	Cc	Cu
Specimen Identification - Depth													
●	BAG-1	As Received											
☒	BAG-1	Before pH4											
▲	BAG-1	After pH 4											
		% - CARBONATE RESIDUE CONTENT = 0.43											

Specimen Identification - Depth												
●	BAG-1	As Received	D100	D95	D60	D50	D10	%Gravel	%Sand	%Silt	%Clay	
☒	BAG-1	Before pH4	50.0000	44.8941	29.6836	27.1906	19.5012					
▲	BAG-1	After pH 4	50.0000	44.0619	28.5222	25.9216	19.6472					
			50.0000	44.0372	28.3585	25.7254	19.4948					

ASTM D422	GRADATION CURVE	PROJECT		
		LORAIN COUNTY II - 2013 GCCS CQA		
		LOCATION		
		OBERLIN, OHIO		
		JOB NO.		
		1173-12-003A, B & C #143908		
		DATE		
		1/30/13		

THIS PAGE INTENTIONALLY LEFT BLANK.



BOULDERS	COBBLES	GRAVEL			SAND			SILT OR CLAY						
		coarse	fine	fine	coarse	medium	fine	MC%	LL	PL	PI	Cc	Cu	
Specimen Identification - Depth														
●	BAG-1	As Received	#4 STONE									0.911	1.522	
☒	BAG-1	Before pH4										0.899	1.452	
▲	BAG-1	After pH 4	% -CARBONATE RESIDUE CONTENT = 0.43									0.899	1.455	
Specimen Identification - Depth														
●	BAG-1	As Received	D100	D95	D60	D50	D10	%Gravel	%Sand	%Silt	%Clay			
☒	BAG-1	Before pH4	50.0000	44.8941	29.6836	27.1906	19.5012							
▲	BAG-1	After pH 4	50.0000	44.0619	28.5222	25.9216	19.6472							
			50.0000	44.0372	28.3585	25.7254	19.4948							

ASTM D422

GRADATION CURVE

PROJECT LOCATION
JOB NO.

LORAIN COUNTY II - 2013 GCCS CQA
OBERLIN, OHIO
1173-12-003A, B & C #143908

DATE 1/30/13



APPENDIX G – Geosynthetics Test Results



Geomembrane Repair Summary

Project Name: Lorain County II Landfill: 2014 GCCS Phase 2

Project Number: 151.0001

CQA Monitor: Janet Todla

Repair Number	Date	Time	Seam Panel	Operator / Machine	Repair Location		Description	Size of Repair	Vacuum Test Date	Vacuum Test Results (P/F)
					North	East				
1	4/6/14	1100	N/A	Delgado/G53	N/A	N/A	Repair on rain flap at 24" pipeline @ main road crossing; rain flap was knicked with the excavator bucket	2' x 3'	4/6/14	P
2	6/23/14	0800	N/A	Delgado/G53	N/A	N/A	Bore seal and boot EW96R	3' x 3'	6/23/14	P
3	6/23/14	0940	N/A	Delgado/G53	N/A	N/A	Bore seal and boot EW118R	3' x 3'	6/23/14	P
4	6/23/14	1100	N/A	Delgado/G53	N/A	N/A	Bore seal and boot EW116R2	3' x 3'	6/23/14	P
5	7/1/14	1100	N/A	Delgado/G53	N/A	N/A	Abandon and bore seal repair EW96	4' x 4'	7/1/14	P
6	7/2/14	0830	N/A	Delgado/G53	N/A	N/A	Abandon and bore seal EW32R and boot EW32R2	3' x 3'	7/2/14	P
7	7/2/14	1030	N/A	Delgado/G53	N/A	N/A	Abandon EW118 and EW118S and bore seals	3' x 3'	7/2/14	P
8	7/2/14	1330	N/A	Delgado/G53	N/A	N/A	Abandon EW116R and EW116S and bore seals	3' x 3'	7/2/14	P



Geomembrane Trial Weld Summary

Project Name: Lorain County II Landfill: 2014 GCCS Phase 2 Construction

CQA Monitor: Janet Todia

Project Number: 151.0001

Test No.	Date	Time	Weather (Cloudy/Sunny)	Amb. Temp. (°F)	Welder I.D.	Machine Number	Temp. Setting/Speed	Weld Type	PEEL (ppi)						SHEAR (ppi)			Test Result (P/F)	Comments
									Outside Weld			Inside Weld			1	2	3		
									1	2	3	1	2	3					
1	4/6/14	1000	Sunny	48	Delgado	G53	350°F - 450°F	E	N/A	N/A	N/A	78	80	81	79	80	81	P	N/A
2	6/23/14	0730	Sunny	72	Delgado	G53	350°F - 450°F	E	N/A	N/A	N/A	78	76	71	82	82	84	P	N/A
3	7/1/14	1030	Sunny	88	Delgado	G53	350°F - 450°F	E	N/A	N/A	N/A	65	66	63	71	75	70	P	N/A
4	7/2/14	0730	Sunny	73	Delgado	G53	350°F - 450°F	E	N/A	N/A	N/A	74	71	73	77	78	80	P	N/A
5	7/2/14	1130	Sunny	88	Delgado	G53	350°F - 450°F	E	N/A	N/A	N/A	73	72	74	78	81	81	P	N/A



APPENDIX H – Air Monitoring Results



Name of Project/Site: Lowell II Phase 1 2014						Project No: 157.0001			
Project/Site Location: Darling, OH									
Employee Performing Air Monitoring: Janet Todia						Date: 4/9/14			
Instrument(s)									
Manufacturer:		Model:		Manufacturer:		Model:			
Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No						Remarks:			
Air Monitoring Data									
Time	Location and Activity	Ambient Temp (F)	P/FID (ppm)	Benzene (if P/FID ≥ 1)	Ammonia (ppm)	Multi-Gas Detection			
						O ₂ (%)	LEL (Methane) (%)	H ₂ S (ppm)	CO (ppm)
Action Level:			≥ 10	Tube ≥ 1	≥ 25	≤ 19.5 ≥ 22.0	≥ 10	≥ 10	≥ 25
7:30	excavate horizontals (2 further east) from north end points to high points	51°F	—	—	—	20.9	0	0	0
7:45									
8:00									
8:15									
8:30									
8:45									
9:00									
9:15									
9:30									
9:45									
10:00									
10:15									
10:30									
10:45									
11:00									
11:15									
11:30									
11:45									
12:00									
12:15									
12:30									
12:45									
13:00									
13:15									
13:30									
13:45									
14:00									
14:15									
14:30									
14:45									
15:00									
15:15									
15:30									
15:45									
16:00									
16:15									
16:30									
16:45									
17:00									
17:15									
17:30									
17:45									
18:00									
18:15									
18:30									

Air Monitoring Form

Name of Project/Site: Grain II Phase I 2014						Project No: 157.0001			
Project/Site Location: Oberlin OH									
Employee Performing Air Monitoring: Tanet Tadia						Date: 4/10/14			
Instrument(s)									
Manufacturer:		Model:		Manufacturer:		Model:			
Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No						Remarks:			
Air Monitoring Data									
Time	Location and Activity	Ambient Temp (F)	P/FID (ppm)	Benzene (if P/FID ≥ 1)	Ammonia (ppm)	Multi-Gas Detection			
						O ₂ (%)	LEL (Methane) (%)	H ₂ S (ppm)	CO (ppm)
Action Level:			≥ 10	Tube ≥ 1	≥ 25	≤ 19.5 ≥ 22.0	≥ 10	≥ 10	≥ 25
7:30	excavate third horizontal from north end to high point	54 F				20.9	0	0	0
7:45									
8:00									
8:15									
8:30									
8:45									
9:00									
9:15									
9:30									
9:45									
10:00									
10:15									
10:30									
10:45									
11:00									
11:15									
11:30									
11:45									
12:00									
12:15									
12:30									
12:45									
13:00									
13:15									
13:30									
13:45									
14:00									
14:15									
14:30									
14:45									
15:00									
15:15									
15:30									
15:45									
16:00									
16:15									
16:30									
16:45									
17:00									
17:15									
17:30									
17:45									
18:00									
18:15									
18:30									

[illegible]

[illegible]

Name of Project/Site: LOT 2 in II Phase 1 2014						Project No: 15T-0001				
Project/Site Location: Aberlin, OH										
Employee Performing Air Monitoring: Jana Tolia						Date: 4/19/14				
Instrument(s)										
Manufacturer:			Model:			Manufacturer:			Model:	
Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No						Remarks:				
Air Monitoring Data										
Time	Location and Activity	Ambient Temp (F)	P/FID (ppm)	Benzene (if P/FID ≥ 1)	Ammonia (ppm)	Multi-Gas Detection				
						O ₂ (%)	LEL (Methane) (%)	H ₂ S (ppm)	CO (ppm)	
Action Level:			≥ 10	Tube ≥ 1	≥ 25	≤ 19.5 ≥ 22.0	≥ 10	≥ 10	≥ 25	
7:30	Well 24" 2" & 2" x 4" thru' for water CMP and dress up area; fill 24" with water for weight to keep grade	55°F	/	/	/	20.9	0	0	0	
7:45										
8:00										
8:15										
8:30										
8:45										
9:00										
9:15										
9:30										
9:45										
10:00										
10:15										
10:30										
10:45										
11:00										
11:15										
11:30										
11:45										
12:00										
12:15										
12:30										
12:45										
13:00										
13:15										
13:30										
13:45										
14:00										
14:15										
14:30										
14:45										
15:00										
15:15										
15:30										
15:45										
16:00										
16:15										
16:30										
16:45										
17:00										
17:15										
17:30										
17:45										
18:00										
18:15										
18:30										

Name of Project/Site: Lorain II Phase I 2014 Project No: 151.0001
 Project/Site Location: Obelisk, OH
 Employee Performing Air Monitoring: Janet Todia Date: 4/22/14

Instrument(s)

Manufacturer: _____ Model: _____ Manufacturer: _____ Model: _____

Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No Remarks: _____

Air Monitoring Data

Time	Location and Activity	Ambient Temp (F)	P/FID (ppm)	Benzene (If P/FID ≥ 1)	Ammonia (ppm)	Multi-Gas Detection			
						O ₂ (%)	LEL (Methane) (%)	H ₂ S (ppm)	CO (ppm)
Action Level:			≥ 10	Tube ≥ 1	≥ 25	≤ 19.5 ≥ 22.0	≥ 10	≥ 10	≥ 25
7:30	continue 12" 4" 2" from JTD point to completion and point	51°F	—	—	—	20.9	0	0	0
7:45									
8:00									
8:15									
8:30									
8:45									
9:00									
9:15									
9:30									
9:45									
10:00									
10:15									
10:30									
10:45									
11:00									
11:15									
11:30									
11:45									
12:00									
12:15									
12:30									
12:45									
13:00									
13:15									
13:30									
13:45									
14:00									
14:15									
14:30									
14:45									
15:00									
15:15									
15:30									
15:45									
16:00									
16:15									
16:30									
16:45									
17:00									
17:15									
17:30									
17:45									
18:00									
18:15									
18:30									

Name of Project/Site: <u>Lo/2 in TI phase 1</u>						Project No: <u>151-0001</u>			
Project/Site Location: <u>Berlin, OH</u>									
Employee Performing Air Monitoring: <u>Janet Todia</u>						Date: <u>4/23/14</u>			
Instrument(s)									
Manufacturer:		Model:		Manufacturer:		Model:			
Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No						Remarks:			
Air Monitoring Data									
Time	Location and Activity	Ambient Temp (F)	P/FID (ppm)	Benzene (if P/FID ≥ 1)	Ammonia (ppm)	Multi-Gas Detection			
						O ₂ (%)	LEL (Methane) (%)	H ₂ S (ppm)	CO (ppm)
Action Level:			≥ 10	Tube ≥ 1	≥ 25	≤ 19.5 ≥ 22.0	≥ 10	≥ 10	≥ 25
7:30	continue 24" 2x4" dual cont force main, 2" air from 24" iso valve to pump installation point	48°F	/	/	/	20.9	0	0	0
7:45									
8:00									
8:15									
8:30									
8:45									
9:00									
9:15									
9:30									
9:45									
10:00									
10:15									
10:30									
10:45									
11:00									
11:15									
11:30									
11:45									
12:00									
12:15									
12:30									
12:45									
13:00									
13:15									
13:30									
13:45									
14:00									
14:15									
14:30									
14:45									
15:00									
15:15									
15:30									
15:45									
16:00									
16:15									
16:30									
16:45									
17:00									
17:15									
17:30									
17:45									
18:00									
18:15									
18:30									

Name of Project/Site: Certain II Phase I 2014						Project No: 157.0001				
Project/Site Location: Oberlin, OH										
Employee Performing Air Monitoring: Janet Rodia						Date: 4/24/14				
Instrument(s)										
Manufacturer:			Model:			Manufacturer:			Model:	
Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No						Remarks:				
Air Monitoring Data										
Time	Location and Activity	Ambient Temp (F)	P/FID (ppm)	Benzene (if P/FID ≥ 1)	Ammonia (ppm)	Multi-Gas Detection				
						O ₂ (%)	LEL (Methane) (%)	H ₂ S (ppm)	CO (ppm)	
Action Level:			≥ 10	Tube ≥ 1	≥ 25	≤ 19.5 ≥ 22.0	≥ 10	≥ 10	≥ 25	
7:30	continue 24" 4"x8" + 2" to sump / blind flange termination point to air test	60°F	/	/	/	20.9	0	0	0	
7:45										
8:00										
8:15										
8:30										
8:45										
9:00										
9:15										
9:30										
9:45										
10:00										
10:15										
10:30										
10:45										
11:00										
11:15										
11:30										
11:45										
12:00										
12:15										
12:30										
12:45										
13:00										
13:15										
13:30										
13:45										
14:00										
14:15										
14:30										
14:45										
15:00										
15:15										
15:30										
15:45										
16:00										
16:15										
16:30										
16:45										
17:00										
17:15										
17:30										
17:45										
18:00										
18:15										
18:30										

Name of Project/Site: Levin II Phase 1 2014 Project No: 152.0001
 Project/Site Location: Oberlin, OH
 Employee Performing Air Monitoring: Tenet Todia Date: 4/28/14

Instrument(s)

Manufacturer: _____ Model: _____ Manufacturer: _____ Model: _____

Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No Remarks: _____

Air Monitoring Data

Time	Location and Activity	Ambient Temp (F)	P/FID (ppm)	Benzene (if P/FID ≥ 1)	Ammonia (ppm)	Multi-Gas Detection			
						O ₂ (%)	LEL (Methane) (%)	H ₂ S (ppm)	CO (ppm)
Action Level:			≥ 10	Tube ≥ 1	≥ 25	≤ 19.5 ≥ 22.0	≥ 10	≥ 10	≥ 25
7:30	<u>RW1162 (2,2,0) Excavation</u>	<u>53°F</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>20.9</u>	<u>0</u>	<u>0</u>	<u>0</u>
7:45									
8:00									
8:15									
8:30									
8:45									
9:00									
9:15									
9:30									
9:45									
10:00									
10:15									
10:30									
10:45									
11:00									
11:15									
11:30									
11:45									
12:00									
12:15									
12:30									
12:45	<u>no waste in excavation</u>								
13:00									
13:15									
13:30									
13:45									
14:00									
14:15									
14:30									
14:45									
15:00									
15:15									
15:30									
15:45									
16:00									
16:15									
16:30									
16:45									
17:00									
17:15									
17:30									
17:45									
18:00									
18:15									
18:30									



Project No: 156000

Employee Performing Air Monitoring: Janet Todia

Date: 5/5/20

Instrument(s)

manufacturer:

Model:

Manufacturer:

Model:

Were instruments calibrated per manufacturer's instructions?

☒ Yes ☐ No

Remarks:

Air Monitoring Data

[illegible]

[illegible]



Name of Project/Site:	Lotain II Phase I 2014	Project No:	157.0001
Project/Site Location:	Oberlin, OH		
Employee Performing Air Monitoring:	Janet Tedia	Date:	5/7/14

Instrument(s)			
Manufacturer:	Model:	Manufacturer:	Model:

Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No Remarks:

Air Monitoring Data

Time	Location and Activity	Ambient Temp (F)	P/FID (ppm)	Benzene (if P/FID ≥ 1)	Ammonia (ppm)	Multi-Gas Detection			
						O ₂ (%)	LEL (Methane) (%)	H ₂ S (ppm)	CO (ppm)
Action Level:			≥10	Tube ≥ 1	≥25	≤ 19.5 ≥ 22.0	≥ 10	≥ 10	≥ 25
7:30	Horizontal 3; H2LN proceed south to "hump" in active phase	80°F	/	/	/	20.9	0	0	0
7:45									
8:00									
8:15									
8:30									
8:45									
9:00									
9:15									
9:30									
9:45									
10:00									
10:15									
10:30									
10:45									
11:00									
11:15									
11:30									
11:45									
12:00									
12:15									
12:30									
12:45									
13:00									
13:15									
13:30									
13:45									
14:00									
14:15									
14:30									
14:45									
15:00									
15:15									
15:30									
15:45									
16:00									
16:15									
16:30									
16:45									
17:00									
17:15									
17:30									
17:45									
18:00									
18:15									
18:30									



Name of Project/Site: <u>Lorain II Phase I 2014</u>						Project No: <u>157-0001</u>				
Project/Site Location: <u>Oberlin, OH</u>										
Employee Performing Air Monitoring: <u>Dan Todia</u>						Date: <u>5/8/14</u>				
Instrument(s)										
Manufacturer:			Model:			Manufacturer:			Model:	
Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No						Remarks:				
Air Monitoring Data										
Time	Location and Activity	Ambient Temp (F)	P/FID (ppm)	Benzene (if P/FID ≥ 1)	Ammonia (ppm)	Multi-Gas Detection				
						O ₂ (%)	LEL (Methane) (%)	H ₂ S (ppm)	CO (ppm)	
Action Level:			≥ 10	Tube ≥ 1	≥ 25	≤ 19.5 ≥ 22.0	≥ 10	≥ 10	≥ 25	
7:30	<u>haul dirt & repair 4'x8" dial contained in 24" trench</u>	<u>70°F</u>	/	/	/	<u>20.9</u>	<u>0</u>	<u>0</u>	<u>0</u>	
7:45										
8:00										
8:15										
8:30										
8:45										
9:00										
9:15										
9:30										
9:45										
10:00										
10:15										
10:30										
10:45										
11:00										
11:15										
11:30										
11:45										
12:00										
12:15										
12:30										
12:45										
13:00										
13:15										
13:30										
13:45										
14:00										
14:15										
14:30										
14:45										
15:00										
15:15										
15:30										
15:45										
16:00										
16:15										
16:30										
16:45										
17:00										
17:15										
17:30										
17:45										
18:00										
18:15										
18:30										



Name of Project/Site: <u>Worantil Phase 1 2014</u>						Project No: <u>151.0001</u>			
Project/Site Location: <u>Dorchester, MA</u>									
Employee Performing Air Monitoring: <u>Janet Todaro</u>						Date: <u>5/22/14</u>			
Instrument(s)									
Manufacturer:		Model:		Manufacturer:		Model:			
Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No						Remarks:			
Air Monitoring Data									
Time	Location and Activity	Ambient Temp (F)	P/FID (ppm)	Benzene (if P/FID ≥ 1)	Ammonia (ppm)	Multi-Gas Detection			
						O ₂ (%)	LEL (Methane) (%)	H ₂ S (ppm)	CO (ppm)
Action Level:			≥ 10	Tube ≥ 1	≥ 25	≤ 19.5 ≥ 22.0	≥ 10	≥ 10	≥ 25
7:30	continue horizontal 3 (H ₂ N) through the "hump"	63°F	/	/	/	20.9	0	0	0
7:45									
8:00									
8:15									
8:30									
8:45									
9:00									
9:15									
9:30									
9:45									
10:00									
10:15									
10:30									
10:45									
11:00									
11:15									
11:30									
11:45									
12:00									
12:15									
12:30									
12:45									
13:00									
13:15									
13:30									
13:45									
14:00									
14:15									
14:30									
14:45									
15:00									
15:15									
15:30									
15:45									
16:00									
16:15									
16:30									
16:45									
17:00									
17:15									
17:30									
17:45									
18:00									
18:15									
18:30									



Name of Project/Site: Complaint Phase I 2014						Project No: 151.0001			
Project/Site Location: Oberlin OH									
Employee Performing Air Monitoring: Janet Todia						Date: 5/19/14			
Instrument(s)									
Manufacturer:		Model:		Manufacturer:		Model:			
Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No						Remarks:			
Air Monitoring Data									
Time	Location and Activity	Ambient Temp (F)	P/FID (ppm)	Benzene (if P/FID ≥ 1)	Ammonia (ppm)	Multi-Gas Detection			
						O ₂ (%)	LEL (Methane) (%)	H ₂ S (ppm)	CO (ppm)
Action Level:			≥ 10	Tube ≥ 1	≥ 25	≤ 19.5 ≥ 22.0	≥ 10	≥ 10	≥ 25
7:30	Continuation of horizontal	70°F	/	/	/	20.9	0	0	0
7:45									
8:00									
8:15									
8:30									
8:45									
9:00									
9:15									
9:30									
9:45									
10:00									
10:15									
10:30									
10:45									
11:00									
11:15									
11:30									
11:45									
12:00									
12:15									
12:30									
12:45									
13:00									
13:15									
13:30									
13:45									
14:00									
14:15									
14:30									
14:45									
15:00									
15:15									
15:30									
15:45									
16:00									
16:15									
16:30									
16:45									
17:00									
17:15									
17:30									
17:45									
18:00									
18:15									
18:30									



Name of Project/Site: <u>Lorain II Phase 1 2014</u>	Project No: <u>151.0001</u>
Project/Site Location: <u>Dorlin OH</u>	
Employee Performing Air Monitoring: <u>Jane Todia</u>	Date: <u>5/20/14</u>
Instrument(s)	

Instrument(s)			
Manufacturer:	Model:	Manufacturer:	Model:

Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No Remarks:

Air Monitoring Data

[illegible]

Name of Project/Site: L-0121A II Phase I 2014						Project No: 151.0001			
Project/Site Location: Dublin, OH									
Employee Performing Air Monitoring: Jarad Tadio						Date: 5/21/14			
Instrument(s)									
Manufacturer: QRA		Model: H gas meter		Manufacturer:		Model:			
Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No						Remarks:			
Air Monitoring Data									
Time	Location and Activity	Ambient Temp (F)	P/FID (ppm)	Benzene (if P/FID ≥ 1)	Ammonia (ppm)	Multi-Gas Detection			
						O ₂ (%)	LEL (Methane) (%)	H ₂ S (ppm)	CO (ppm)
Action Level:	(con't) →		≥ 10	Tube ≥ 1	≥ 25	≤ 19.5 ≥ 22.0	≥ 10	≥ 10	≥ 25
7:30	horizontal 1 thru road xing & continue horizontal 3 to H215	74°F	/	/	/	209	0	0	0
7:45									
8:00									
8:15									
8:30									
8:45									
9:00									
9:15									
9:30									
9:45									
10:00									
10:15									
10:30									
10:45									
11:00									
11:15									
11:30									
11:45									
12:00									
12:15									
12:30									
12:45									
13:00									
13:15									
13:30									
13:45									
14:00									
14:15									
14:30									
14:45									
15:00									
15:15									
15:30									
15:45									
16:00									
16:15									
16:30									
16:45									
17:00									
17:15									
17:30									
17:45									
18:00									
18:15									
18:30									

[illegible]



Name of Project/Site: <u>Lorain H Phase I 2014</u>						Project No: <u>151.0001</u>			
Project Site Location: <u>Ocellin, OH</u>									
Employee Performing Air Monitoring: <u>Jane Tadio</u>						Date: <u>5/22/14</u>			
Instrument(s)									
Manufacturer: <u>QRA</u>		Model: <u>H gas meter</u>		Manufacturer:		Model:			
Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No						Remarks:			
Air Monitoring Data									
Time	Location and Activity	Ambient Temp (F)	P/FID (ppm)	Benzene (if P/FID ≥ 1)	Ammonia (ppm)	Multi-Gas Detection			
						O ₂ (%)	LEL (Methane) (%)	H ₂ S (ppm)	CO (ppm)
Action Level:			≥ 10	Tube ≥ 1	≥ 25	≤ 19.5 ≥ 22.0	≥ 10	≥ 10	≥ 25
7:30	<u>continue horizontal 1 to CS21; continue horizontal 4 from 400' initiation point</u>	<u>68°F</u>	/	/	/	<u>20.9</u>	<u>0</u>	<u>0</u>	<u>0</u>
7:45									
8:00									
8:15									
8:30									
8:45									
9:00									
9:15									
9:30									
9:45									
10:00									
10:15									
10:30									
10:45									
11:00									
11:15									
11:30									
11:45									
12:00									
12:15									
12:30									
12:45									
13:00									
13:15									
13:30									
13:45									
14:00									
14:15									
14:30									
14:45									
15:00									
15:15									
15:30									
15:45									
16:00									
16:15									
16:30									
16:45									
17:00									
17:15									
17:30									
17:45									
18:00									
18:15									
18:30									



Name of Project/Site: <u>Lorain II Phase I 2014</u>						Project No: <u>151.0001</u>			
Project/Site Location: <u>Oberlin, OH</u>									
Employee Performing Air Monitoring: <u>Tyler Todia</u>						Date: <u>5/23/14</u>			
Instrument(s)									
Manufacturer: <u>Q&A</u>		Model: <u>4 gas meter</u>		Manufacturer:		Model:			
Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No Remarks:									
Air Monitoring Data									
Time	Location and Activity	Ambient Temp (F)	P/FID (ppm)	Benzene (if P/FID ≥ 1)	Ammonia (ppm)	Multi-Gas Detection			
						O ₂ (%)	LEL (Methane) (%)	H ₂ S (ppm)	CO (ppm)
Action Level:			≥ 10	Tube ≥ 1	≥ 25	≤ 19.5 ≥ 22.0	≥ 10	≥ 10	≥ 25
7:30	<u>complete horizontal 4</u> <u>* perform clean up</u> <u>work w/ Q&A</u>	<u>78°F</u>	/	/	/	<u>20.9</u>	<u>0</u>	<u>0</u>	<u>0</u>
7:45									
8:00									
8:15									
8:30									
8:45									
9:00									
9:15									
9:30									
9:45									
10:00									
10:15									
10:30									
10:45									
11:00									
11:15									
11:30									
11:45									
12:00									
12:15									
12:30									
12:45									
13:00									
13:15									
13:30									
13:45									
14:00									
14:15									
14:30									
14:45									
15:00									
15:15									
15:30									
15:45									
16:00									
16:15									
16:30									
16:45									
17:00									
17:15									
17:30									
17:45									
18:00									
18:15									
18:30									



Name of Project/Site: Loran # Phase I 2014						Project No: 151.0001			
Project/Site Location: Oberlin, OH									
Employee Performing Air Monitoring: Tanet Tolia						Date: 5/27/14			
Instrument(s)									
Manufacturer: Akac		Model: H gas meter		Manufacturer:		Model:			
Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No						Remarks:			
Air Monitoring Data									
Time	Location and Activity	Ambient Temp (F)	P/FID (ppm)	Benzene (if P/FID ≥ 1)	Ammonia (ppm)	Multi-Gas Detection			
						O ₂ (%)	LEL (Methane) (%)	H ₂ S (ppm)	CO (ppm)
Action Level:			≥ 10	Tube ≥ 1	≥ 25	≤ 19.5 ≥ 22.0	≥ 10	≥ 10	≥ 25
7:30	complete horizontals 2+3	78°F	/	/	/	20.9	0	0	0
7:45									
8:00									
8:15									
8:30									
8:45									
9:00									
9:15									
9:30									
9:45									
10:00									
10:15									
10:30									
10:45									
11:00									
11:15									
11:30									
11:45									
12:00									
12:15									
12:30									
12:45									
13:00									
13:15									
13:30									
13:45									
14:00									
14:15									
14:30									
14:45									
15:00									
15:15									
15:30									
15:45									
16:00									
16:15									
16:30									
16:45									
17:00									
17:15									
17:30									
17:45									
18:00									
18:15									
18:30									

Name of Project/Site: Lorain II Phase 1 2014						Project No: 151.0001			
Project/Site Location: Oberlin, OH									
Employee Performing Air Monitoring: Janet Tadia						Date: 5/28/14			
Instrument(s)									
Manufacturer: QRA		Model: H₂ gas meter		Manufacturer:		Model:			
Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No						Remarks:			
Air Monitoring Data									
Time	Location and Activity	Ambient Temp (F)	P/FID (ppm)	Benzene (If P/FID ≥ 1)	Ammonia (ppm)	Multi-Gas Detection			
						O ₂ (%)	LEL (Methane) (%)	H ₂ S (ppm)	CO (ppm)
Action Level:			≥ 10	Tube ≥ 1	≥ 25	≤ 19.5 ≥ 22.0	≥ 10	≥ 10	≥ 25
7:30	muck out 24" header trench due to excessive leaks + runoff	80°F	/	/	/	20.9	0	0	0
7:45									
8:00									
8:15									
8:30									
8:45									
9:00									
9:15									
9:30									
9:45									
10:00									
10:15									
10:30									
10:45									
11:00									
11:15									
11:30									
11:45									
12:00									
12:15									
12:30									
12:45									
13:00									
13:15									
13:30									
13:45									
14:00									
14:15									
14:30									
14:45									
15:00									
15:15									
15:30									
15:45									
16:00									
16:15									
16:30									
16:45									
17:00									
17:15									
17:30									
17:45									
18:00									
18:15									
18:30									



Name of Project/Site:	Leban II Phase I 2014	Project No:	151,0001
Project/Site Location:	Oberlin, OH		
Employee Performing Air Monitoring:	Janet Tadia	Date:	5/29/14

Instrument(s)			
Manufacturer: A Rae	Model: H gas meter	Manufacturer:	Model:

Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No Remarks:

Air Monitoring Data

Time	Location and Activity	Ambient Temp (F)	P/FID (ppm)	Benzene (if P/FID ≥ 1)	Ammonia (ppm)	Multi-Gas Detection			
						O ₂ (%)	LEL (Methane) (%)	H ₂ S (ppm)	CO (ppm)
Action Level:			≥10	Tube ≥ 1	≥25	≤ 19.5 ≥ 22.0	≥ 10	≥ 10	≥ 25
7:30	Regrade 24" header trench & excavate towards the new sump for new sump installation	69°F	/	/	/	20.9	0	0	0
7:45									
8:00									
8:15									
8:30									
8:45									
9:00									
9:15									
9:30									
9:45									
10:00									
10:15									
10:30									
10:45									
11:00									
11:15									
11:30									
11:45									
12:00									
12:15									
12:30									
12:45									
13:00									
13:15									
13:30									
13:45									
14:00									
14:15									
14:30									
14:45									
15:00									
15:15	sump installation								
15:30									
15:45									
16:00									
16:15									
16:30									
16:45									
17:00									
17:15									
17:30									
17:45									
18:00									
18:15									
18:30									



Name of Project/Site: Lolain II Phase 1 2014						Project No: 151.0001			
Project/Site Location: Oberlin, OH									
Employee Performing Air Monitoring: Tom Tedia						Date: 5/30/14			
Instrument(s)									
Manufacturer: QRAE		Model: 4 gas meter		Manufacturer:		Model:			
Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No						Remarks:			
Air Monitoring Data									
Time	Location and Activity	Ambient Temp (F)	P/FID (ppm)	Benzene (if P/FID ≥ 1)	Ammonia (ppm)	Multi-Gas Detection			
						O ₂ (%)	LEL (Methane) (%)	H ₂ S (ppm)	CO (ppm)
Action Level:			≥ 10	Tube ≥ 1	≥ 25	≤ 19.5 ≥ 22.0	≥ 10	≥ 10	≥ 25
7:30	excavate west end tie in of 12" header	81°F	/	/	/	20.9	0	0	0
7:45									
8:00									
8:15									
8:30									
8:45									
9:00									
9:15									
9:30									
9:45									
10:00	excavate + tie in 24" by removal of blind flange								
10:15									
10:30									
10:45									
11:00									
11:15									
11:30									
11:45									
12:00									
12:15									
12:30									
12:45									
13:00									
13:15									
13:30									
13:45									
14:00									
14:15									
14:30									
14:45									
15:00									
15:15									
15:30									
15:45									
16:00									
16:15									
16:30									
16:45									
17:00									
17:15									
17:30									
17:45									
18:00									
18:15									
18:30									



Name of Project/Site: Lafayette Phase I 2014						Project No: 156.0001			
Project/Site Location: Oberlin OH									
Employee Performing Air Monitoring: Jane Tolia						Date: 5/3/14			
Instrument(s)									
Manufacturer: Qlsc		Model: H gas meter		Manufacturer:		Model:			
Were instruments calibrated per manufacturer's instructions? ☒ Yes ☐ No						Remarks:			
Air Monitoring Data									
Time	Location and Activity	Ambient Temp (F)	P/FID (ppm)	Benzene (if P/FID ≥ 1)	Ammonia (ppm)	Multi-Gas Detection			
						O ₂ (%)	LEL (Methane) (%)	H ₂ S (ppm)	CO (ppm)
Action Level:			≥ 10	Tube ≥ 1	≥ 25	≤ 19.5 ≥ 22.0	≥ 10	≥ 10	≥ 25
7:30	excavate CS-21 for removal tie in 6" lateral @ R/W 312	82°F	/	/	/	22.9	0	0	0
7:45									
8:00									
8:15									
8:30									
8:45									
9:00									
9:15									
9:30									
9:45									
10:00									
10:15									
10:30									
10:45									
11:00									
11:15									
11:30									
11:45									
12:00									
12:15									
12:30									
12:45									
13:00									
13:15									
13:30									
13:45									
14:00									
14:15									
14:30									
14:45									
15:00									
15:15									
15:30									
15:45									
16:00									
16:15									
16:30									
16:45									
17:00									
17:15									
17:30									
17:45									
18:00									
18:15									
18:30									



APPENDIX I – Pipeline Pressure Test Results

2014 GCCS - Phase 2 Construction Certification Report - Pipe Pressure Test Results

Date	HDPE Pipe Description	Length (feet)	Pressure (psi)	Time (hours)	Result (Pass/Fail)	Retest (Yes/No)
4/7/14	2" SDR09 (air)	EW226 to EW122R	100	4	Pass	No
4/7/14	2" x 4" dual contained SDR11	EW226 to EW122R	60 x 50	4	Pass	No
4/7/14	2" SDR09 (air)	EW114R to EW107R	100	4	Pass	No
4/7/14	2" x 4" dual contained SDR11	EW114R to EW107R	60 x 50	4	Pass	No
4/14/14	2" SDR09 (air)	EW313R to EW314R	100	4	Pass	No
4/14/14	2" SDR11 (force main)	EW313R to EW314R	50	4	Pass	No
4/17/14	2" SDR09 (air)	EW18 to 24" header	100	4	Pass	No
4/17/14	2" x 4" dual contained SDR11	EW18 to 24" header	60 x 50	4	Pass	No
4/28/14	2" SDR09 (air)	EW162 to below grade tie in points (121')	100	4	Pass	No
4/28/14	2" SDR11 (force main)	EW162 to below grade tie in points (121')	50	4	Pass	No
5/6/14	6" SDR17 (laterals), 12" SDR17 (header)	Entire run of 12" header to the 24" road crossing and all connected 6" laterals	10	4	Pass	No

2014 GCCS - Phase 2 Construction Certification Report - Pipe Pressure Test Results

Date	HDPE Pipe Description	Length (feet)	Pressure (psi)	Time (hours)	Result (Pass/Fail)	Retest (Yes/No)
5/11/14	2" SDR09 (air)	Air and dual contained along entire run of 24" from the road crossing to the header termination point	100	4	Pass	No
5/11/14	4" x 8" dual contained SDR11	Air and dual contained along entire run of 24" from the road crossing to the header termination point	60 x 50	4	Pass	No
6/2/14	6" SDR17	60'	25	4	Pass	No
6/7/14	24" SDR23	Entire length of 24" header from the road crossing to sump CS-22	10	4	Pass	No
6/17/14	2" SDR09 (air)	Air and force main run from EW13R2 to isolation valves to EW128R2 to EW63R2 to EW58R2 to EW57R3	100	4	Pass	No

2014 GCCS - Phase 2 Construction Certification Report - Pipe Pressure Test Results

Date	HDPE Pipe Description	Length (feet)	Pressure (psi)	Time (hours)	Result (Pass/Fail)	Retest (Yes/No)
6/17/14	2" x 4" dual contained SDR11	Air and force main run from EW13R2 to isolation valves to EW128R2 to EW63R2 to EW58R2 to EW57R3	60 x 50	4	Pass	No
6/18/14	2" SDR09 (air)	Air and force main run from EW62R2 to EW170 to EW149 to tie in point below grade	100	4	Pass	No
6/18/14	2" SDR11 (force main)	Air and force main run from EW62R2 to EW170 to EW149 to tie in point below grade	50	4	Pass	No
6/19/14	6" SDR17 (lateral)	EW158R to EW154R2	25	4	Pass	No
6/24/14	2" SDR09 (air)	EW39R2 to EW41R	100	4	Pass	No
6/24/14	2" SDR11 (force main)	EW39R2 to EW41R	50	4	Pass	No
6/26/14	2" SDR09 (air)	EW55R to isolation valves and EW321 to EW328	100	4	Pass	No
6/26/14	2" SDR11 (force main)	EW55R to isolation valves and EW321 to EW328	50	4	Pass	No

2014 GCCS - Phase 2 Construction Certification Report - Pipe Pressure Test Results

Date	HDPE Pipe Description	Length (feet)	Pressure (psi)	Time (hours)	Result (Pass/Fail)	Retest (Yes/No)
6/30/14	2" SDR09 (air)	Air and force main EW324 to EW318 to EW317 to EW315R to EW323	100	4	Pass	No
6/30/14	2" SDR11 (force main)	Air and force main EW324 to EW318 to EW317 to EW315R to EW323	50	4	Pass	No
6/30/14	6" SDR 17 (lateral)	Remote lateral connections EW49R4 to 12" header and EW156R to 12" header	25	4	Pass	No
7/9/14	6" SDR 17 (lateral)	540'	25	4	Pass	No